Himima 3

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 2448.—Vol. LII.

LONDON, SATURDAY, JULY 22, 1882.

R. JAMES H. CROFTS, STOCK AND SHARE BROKER AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.
Business negociated in Stocks and Shares not having a general market

lus. Every Friday a general and reliable List issued (a copy of hich will be forwarded on application), containing closing prices of the week.

MINES INSPECTED.

BANKERS: CITY BANK, LONDON-SOUTH CORNWALL BANK, ST. AUSTELL. Bankers: CITY Bank, London-South Cornwall Bank, St. Austell,

Special Dralings in the following, or part:—

35 Hingston Down, 15-5

55 Bratsberg, 31s. 25 Herostfoot, 1s, 9d. 25 Herostfoot, 1s, 9d. 25 Herostfoot, 1s, 9d. 26 Hoover Hill, 4s. 6d. 35 D'Eresby Mount, 13s 9

50 Devala Cen., 13s. 6d. 20 Killifreth, £53/4. 25 Ruby, £2 1s. 3d. 40 Rhodes Reef, 16s. 20 Langlord, 5s. 20 Langlord, 5s. 20 Devon Cen., 13s. 6d. 20 Langlord, 5s. 20 Devon Friend, 4s. 6d 50 Devala Cen., 13s. 6d. 25 D'Eresby Mount, 13s 9

50 Devon Friend, 4s. 6d 50 Dovon Friend, 4s. 6d 50 Darten, 13s. 6d 50 Last Caradon. 48 E. Chivetton, 25s. 6d 50 East Blue Hills, 10s. 6d 50 Marke Valley, 10s. 6d 50 East Blue Hills, 10s. 6d 50 Mounts Bay, 8s. 6d. 25 D'Eresby Mount, 25 Sondon, 25 Sondo ." SHARES SOLD FOR FORWARD DELIVERY (ONE, TWO, OR THREE MONTHS) ON DEPOSIT OF TWENTY PER CENT.
"." SPECIAL BUSINESS at CLOSE PRICES in all Market TIN, COPPER IN CALL BUSINESS AT CLOSE PRICES IN ALL MARKET TIN, COPPER IN SAMES H. CROFTS, 1, FINCH LANE, LONDON.

LECTRIC LIGHT SHARES - SPECIAL BUSINESS.

ths) on deposit of 20 per cent.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. RAILWAYS - FOREIGN BONDS - SPECIAL BUSINESS. ighly Accounts opened on receipt of the usual cover.
JAMES H. CROFTS, 1, FINCH LANE, LONDON.

MERICAN AND CANADIAN STOCKS AND SHARES-Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

PTIONS, SINGLE or DOUBLE, dealt in at close market JAMES H. CROFTS, 1, FINCH LANE, LONDON.

And Consolated. Appele. Wylnad Forseverance. Indian Glenrock. Ooregum.

** Reliable information given on any of the above. A daily price list issued living closing quotations. SPECIAL BUSINESS in La Piata, Rio Tinto, Frontino and Bolivin, Potosi, Chile, Nouveau Monde, Ruby, Richmond.

** SHARES IN THE ABOVE INDIAN OR OTHER GOLD AND SILVER GINES SOLD FOR FORWARD DELIVERY ONE, TWO, OR THREE MONTHS ON DEPOSIT OF TWENTY PER CENT.

JAMES H. CROFTS, 1. FINCH LANE. LONDON. JAMES H. CROFTS, 1, FINCH LANE, LONDON. ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER 44, THREADNEEDLE STREET, LONDON, E C. ESTABLISHED 1867.

BUSINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description.

RAILWAYS, BANKS, FOREIGN and OLLONIAL BONDS.

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.

Accounts opened for the Fortnightly Settlement

A List of Investments free on application.

Mr. BUMPUS has SPECIAL BUSINESS in the undermentloned:—

70 Goodevere, 22s. 6d.

70 Goodevere, 22s. 6d.

70 Goodevere, 22s. 6d.

70 Goodevere, 23s. 6d.

70 Indian Trevelyan,

100 Indian Glenrock,
22s. 6d.

70 Indian Onno, 244s.

70 Kapanga.

70 Kapanga.

70 Kapanga.

70 Mysore Gold, 10s. 9d.

70 My

IMPORTANT TO INVESTORS.—Shares in SOUND DIVIDEND and PROBRESSIVE MINES (particularly TIN and COPPER) should be bought at preent prices, as many of them are likely to have a considerable rise within the lext few months.

Mr. BUNPUS devotes special attention to these Securities, and is in a position of afford reliable information and advice to intending investors and different prices. few months.
Bunyus devotes specialattention to these Securities, and is in a position ordered reliable information and advice to intending investors and others.

WHEAL GRENVILLE and WEST GODOLPHIN shares are recon investment at present prices.

WILLIAM HENRY BUMPUS, SWORN BROKER.
OFFICES: 44, THREADNEEDLE STREET, LONDON, E.C.
ESTABLISHED 1867.

JOSEPH TOMS, STOCK AND SHARE DEALER,
85, BISHOPSGATE STREET WITHIN,

A BBOTT, PAGE, AND CO., 42, POULTRY, LONDON, E.C., Recommend at present prices a purchase in EAST WHEAL ROSE.

OLD SHEPHERDS.

Bhares fully paid. No further liability.

Pull particulars of Electric Light and other shares contained in our Circular, we ready, and post free.

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MESSES. PETER WATSON AND CO.'S BRITISH AND FOREIGN MONTHLY MINING NEWS -STOCK AND SHARE INVESTMENT NOTES - MINES, MINERALS, AND METAL MARKETS - SHARE LIST. No. 843, Vol. XVII., for JULY month, is now ready, and will be sent to customers on application.

Annual Subscription...... 5s. | Single Copy......

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M R. A L F R E D E.

DEALER in BRITISH and FOREIGN STOCKS and SHARES
of EVERY DESCRIPTION.
(FROM 76, OLD BROAD STREET)

9, OLD BROAD STREET, LONDON. STOCKS AND SHARES FOR SALE.

STOCKS AND SHARES FOR SALE.

Mr. Alfred E. Cooke can SELL the following lots (or any smaller number of shares) to immediate applicants at prices annexed, free of commission.

Where prices are not inserted, the market price of the day will be taken, or offers may be made:—
20 Brateberg Cop.
20 Caliao-Bis Gold, 9.
20 Caliao-Bis Gold, 9.
30 Indian Consolidated, 284.
30 Indian Consolidated, 284.
30 Devala Gold.
10 Eaving Copper, 10s. 6d.
40 Devon Friend, 5s.
40 Devakewalls Tin and Copper, 10s. 6d.
40 Devon Friend, 5s.
40 Devakewalls Tin and Copper, 10s. 6d.
40 Devon Friend, 5s.
40 Devakewalls Tin and Copper, 10s. 6d.
40 Devakewalls Tin and Copper, 10s. 6d.
40 Eaving Copper, 10s. 6d.
40 Eaving Copper and Tin, 4s. 9d.
40 Meshipicoten Copper, 3s.
40 Meshipicoten Copper, 3s.
40 New West Caradon Copper, 1ss.
50 No. West Michael Copper, 1ss.
50 No. West Caradon Copper, 1ss.
50 No. West Ca

shares) to immediate applicants at prices annexed, free of commission, Where prices are not inserted, the market price of the day will be taken, or offers may be made:

20 Brataberg Cop.
22 Caliao-Bis Gold, 9s.
30 Indian Consolidated,
16s. 9d.
30 Devala Gold.
40 Devan Gold.
40 Devon Friend., 5s.
60 Drakewalls Tin and Copper, 10s. 6d.
10 East Lovell Tin, 15s.
10 East Rose Lead.
50 East Blue Hills Tin,
9s. 6d.
22s. 6d.
50 Eng.-Australian Gold
10s.
25 Frontino Gold, £2 16 3
30 Gawton Copper, 9s. 6
50 Hoover Hill.
10 Indian Glenrock Gold
11s.
25 Prontino Gold, £2 16 3
50 Hoover Hill.
10 Indian Glenrock Gold
12s.
50 Indian Trevelyan
6 Gold, 16s.
25 Parys Copper, 3s.
45 W. Lisburne Lead, 20s
7s. 6d.
25 Parys Copper, 5s.
45 W. Lisburne Lead, 20s
7s. 6d.
25 Parys Copper, 5s.
45 W. Lisburne Lead, 20s
50 W. Pevon Copper, 2s.
50 W. Pevon Copper,

MB. ALFRED E. COOKE can supply SPECIAL LOTS of shares in amounts of 225, 250, £100, to £1000, which are likely to prove HIGHLY REMUNERATIVE to IMMEDIATE INVESTORS. TELEGRAMS and LETTERS receive immediate attention. All shares currently dealt in, bought and sold, free of commission.

SPECULATIVE ACCOUNTS OPENED ON RECEIPT OF COVER. SHARES BOUGHT AND SOLD AT CLOSEST NET PRICES.

ALFRED E COOKE, 9, OLD BROAD STREET, LONDON. (Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC GOMMUNICATION.)

TELEGRAPHIC COMMUNICATION.)

MR. JAMES STOCKER, STOCKER, STOCKER, Almada.
2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.O.,
Has special business in the following for cash or settlement by arrangement:—
Almada.
Akankoo.
Gawton.
Bratsberg.
Chile Gold.
Consolidated.
Consolidated Indian.
Clitters.
Callao Bis.
Don Pedro.
Devola Friendship.
Devola Moyar.
Devala Moyar.
Devala Moyar.
Devala Central.
Eberhardt.

Nouveau Monde,
West Devon.
 Consolidated Indian. Olitters.
 Kapanga. La Plata.
 Bichmond.

 Olitters.
 La Plata.
 Sortridge.

 Callao Bls.
 Leadhills.
 So. East Wynaad.

 Devon Friendship.
 Mona Consols.
 Yan.

 Devala Moyar.
 New Kitty.
 West Crebor.

 Devala Central.
 Organos.
 Wheat Orebor.

 Eberhardt.
 Organos.
 Wheat Orebor.

 East Blue Hills.
 Parys Corporation.
 Yuba River.

 BANKERS:
 LONDON AND WESTMINSTER.

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37, WALBROOK, LONDON, E.C. Established Twenty-five Years.
BANKERS: LONDON JOINT-STOCK, Princes-street.

Mr. Reynolds transacts business in all descriptions of Mining Property at net prices. He is in a position to obtain reliable information respecting mining shares, and advises upon such information on the receipt of a fee of 21s.. He spares neither time nor expense in securing for his numerous correspondents opportunities for obtaining the best investments.

RANVILLE SHARP, STOCK AND SHARE DEALER,

22, QUEEN VICTORIA STREET, LONDON, E.C.,
Recommends the purchase of shares in the
EAST CHIVERTON SILVER-LEAD MINE, and WHEAL JANE TIN MINE.
Full particulars on application.
BANKERS: LONDON AND WESTMINSTER, London, E.C.

FERDINAND R. KIRK, STOCKBROKER, 5, BIRCHIN-LANE, LONDON, E.O. Fortnightly Accounts opened in all Stock Exchange Securities on receipt the usual cover.

BANKERS: LONDON AND WESTMINSTER, Lothbury.

A BBOTT AND CO,, STOCK AND SHARE BROKERS, 9, CORNHILL, LONDON, E.C. WHEAL GEORGE shares should be bought now at PRESENT QUOTATIONS. The Extra Edition of July Circular posted on application.

NOTICE TO SHAREHOLDERS. HERODSFOOT SILVER-LEAD MINE.—
WANTED TO PURCHASE, FIVE HUNDRED to TWO THOUSAND
SHARES FOR CASH. State Price.
Mr. A. DAVIDSON, Leadenhall House, 101, Leadenhall-street, London, E.C.

MR. ALEXANDER DAVIDSON, STOCK AND SHARE DEALER, LEADENHALL HOUSE, 101, LEADENHALL STREET, LONDON, E.C.

FOR SALE, the following, or any part. OFFERS CAN BE MADE, or the LOWEST PRIOES will be FORWARDED on application:—

"120 Bratsberg. "150 Organos Gold. 170 Tankerville. "150 Organos Gold. 170 Tankerville. "500 Parys Mountain. 50 Van. "200 Le Plata. 170 Prince of Wales. "110 West Crebor. 180 Le Plata. 76 Richmond. 120 West Caradon. 180 West Devon. "200 Michipicoton, 19s. 40 Roman Gravels. 210 West Devon. "25 Mous, £4 11s, 34. 400 Sortridge. "100 West Phomix. 60 Tamar Sliver-Lead."

"THESE ARE CHEAP SHARES, WORTH BUYING FOR A GOOD RISE. All these Mines are looking well, and at present prices shares should be bought. Buyers should first ascertain my price before going elsewhere.

"DIFFERENTIAL" PUMPING ENGINE (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSEE.

HATHORN, DAVEY, AND CO., LEEDS.

HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-herse power, and have facilities for supplying very power ful Eugines and Pumps at a short notice.

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M R. A L F R E D T H O M A S, MINING AGENT, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.C.

ESTABLISHED 1852. H E N R Y G O U L D S H
STOCK AND SHARE BROKER,
21, THREADNEEDLE STREET, LONDON, E.C. SHARP.

Bankers-London and County Bank, Lombard-street, London, E.C. SAFE DIVIDEND INVESTMENTS IN STOCKS AND SHARES PAYING 4 TO 7 AND 12 PER CENT. PER ANNUM ON OUTLAY.

SHARP'S INVESTMENT CIRCULAR.
THE JULY EDITION (post free).
SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS IN SHARP'S STOCKS AND SHARES OF EVERY MARKETABLE DESCRIPTION

CHEAP SHARES-SPECIALLY ADVISED FOR A GREAT RISE. HERODS FOOT SILVER LEAD M ST. KEYNE, LISKEARD, CORNWALL. In 12,000 Shares, 16s. paid. Price, Nominally, 2s. 6d. per Share. MINE.

A MAP OF THE MINE FORWARDED (post free), SHOWING WORKING. A SIAR OF THE MINE FORWARDED (post free), SHOWING WORKING.

A most important feature is the driving of the 117 fathom level, south part of
sett, where there is every prospect of opening up a good Mine independent of
present workings and the north ground.

The present company has been working about three years. The mine was in a
bad stare, but all things have been put into working order (such work takes time),
and about

And about A.14,300 WORTH OF LEAD ORE HAS BEEN SOLD SINCE 1879.

They have a rich silver-lead lode in the 215 fathom level, for 40 fms, in length and 10 fms, in depth (between the 205 and 215 levels), and the shaft is sinking to the 225 fathom level to get under the same rich lode.

BUILDINGS AND MACHINERY, ENGINES, &c., COST £15,000.

They have a very large extent of ore ground unworked in the north part of the Mine for some 250 fms. in length, and 65 fms. in depth. PRESENT SALES, 90 TONS EVERY TWO MONTHS.

Terodsfoot has been one of the richest and best dividend-paying Mines in the remail for silver-lead ore; it is still very productive, as sales of ore prove. £80,000 WAS PAID IN DIVIDENDS ON AN OUTLAY OF £8700. IN FORMER WORKING, AND SHARES ROSE TO £52 EACH

It is now in full working; shares can be obtained for a few shillings each, and may rise 1000 to 3000 per cent. In fact, at present price no one can go wrong n buying. TO INTENDING BUYERS OF CHEAP SHARES.

There is not a single Mine in the United Kingdom better worth investing in han Herodsfoot, taking into consideration the "very low price" of shares. than Herodsfoot, taking into consideration the "very low price" of shares.

NOTE.—In February, 1879, pig-lead was £19 10s. per ton, it is now £14 10s. per ton (a fail of £5 per ton in 2'4 years.) A rise of £3 to £5 per ton is likely to take place before long, and with increased sales of ore dividends will be resumed. Under any circumstances shares are worth picking up at £3, £61. as a speculation.

NOTE.—The fact of the Mine being now rich in "SOUTH PART," 215 fathoms deep, it is considered certain that the "NORTH PART" will prove as rich below the 127 fms. level to the 215 level, which would give 65 fathoms of ore ground in depth, and 250 fathoms in length.

CHEAP SHARES-SAFE TO BUY-WILL RESUME DIVIDENDS IN 1883.

OHEAP SHARES—SAFE TO BUY—WILL RESUME DIVIDENDS IN 1893.

WHEAL JANE (TIN) MINE,
KEA, CORNWALL.

In 12,288 Shares. £1 16s. 2d paid. Price 15s. to 17s. 6d. per Share.

AMAP OF THE MINE FORWARDED (Post Free) SHOWING WORKING.

NOTE.—Compared with all the tin mines in Cornwall, Wheal Jane shares are
the cheapest and best to buy; they are now intrinsically worth £2 per share.
The mine is now paying current costs.

12,288 SHARES at 15s. each 18 ONLY £9216 FOR THE WHOLE MINE.

They have "sk" engines upon this mine—which is most efficiently equipped with machinery for laying open the ore ground in the various levels, &c.
BUILDINGS, MACHINERY, ENGINES, &c., COST &20,000.
£16,896 HAS BEEN PAID IN DIVIDENDS FROM WHEAL JANE MINE.

SOLD FOR FOUR MONTHS ENDING 1881 REALISED 49811 TIN SOLD FOR FOUR MONTHS ENDING APRIL, 1882, REALISED £3084. TIN SOLD IN JUNE REALISED £1292. Another 13 tons for sale

EXTRACTS FROM SPECIAL REPORTS ON WHEAL JANE MINE.

CAMBORNE, 12th September, 1881.

Returns will increase to 15 tons, and gradually increase as the Mine is opened pp. On the whole the Mine holds out good promise, " will soon be gain brought into a profitable state.

Signed, T. HODGE, Manager of Wheal Grenville Mine.

WHEAL JANE MINE, and october, 1881.

On looking on the different points throughout, the quantity of tinstone will considerably increase, which will materially add to your return of tin, and at no distant date the Mine will egain resume her former position as a dividend mine.

Signed, W. O. TEEVENA, Manager Wheal Basset Mine.

WHEAL JANE MINE, 15th December, 1881.
Wheal Jane will shortly be in a profitable position, and the Mine may there
fore be considered a safe and valuable property.
Signed, JOSEPH PRISK, Manager of Phonix United Mines.

Signed, JOSEPH PRISK, Manager of Phonix United Mines.

WHEAL JANE MINE, 9th May, 1882.

Seeing that there is ALREADY DISCOVERED IN THE SHALLOW PORTION OF THE MINE AN IMMERSE QUANTITY OF moderate-quality TIN GROUND (to say nothing of the deeper parts) that can be worked cheaply, and that at the surface THERE ARE THOUSANDS OF TONS of burnt leavings, which from my own assays contain 28 lbs. of Tin to the ton and upwards, in the returned monthly, with no very great increase of costs.

The Mine I consider may be placed among some of the fairest speculations of the country, and " " should after a little time take her f-rmer position among the dividend mines. CHARLES CRAZE, of South Frances Mine.

HENRY GOULD SHARP, STOCK AND SHARE BROKER, 21, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1852, Bankers-London and County Bank, Lombard-street, London, E.C.

MR. W. B. COBB, STOCK AND SHARE DEALER, 29, BISHOPSGATE-STREET, LONDON, E C.

MR. E. J. BARTLETT, 30, GREAT ST. HELENS, LONDON E.C., has special dealings in Stock Exchange Securities and Miscellaneon Shares of every description.

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The Belt Copper Mines (Limited).

CAPITAL £250,000, DIVIDED INTO 50,000 SHARES OF £5 EACH.

Of which 16,000 are to be allotted to the vendors, credited as fully paid up, and the balance 34,000 shares, are now offered for public subscription, payable as follows:—5s. per share on application, £2 5s. on allotment, and the balance in such calls as the directors may think fit, but no further call to be payable sooner than two months after date of allotment.

DIRECTORS. The Right Hon. The EARL OF DENBIGH, 2, Cromwell Houses, S.W. S. COXON, Esq., M.Inst.C.E., 23, Great George Street, Westminster, S.W. K. H. JAMES, Esq. (Messrs. James and Shakspeare), 10, Austin Friars, E.C. ARTHUR GEORGE KENDALL, Esq. (Messrs. H. Kendall and Sons), 12, Great Winchester Street, E.C. MALCOLM LOW, Esq., J.P., 22, Roland Gardens, S.W. JOHN SANDEMAN, Esq. (Messrs. Geo. G. Sandeman, Sons, and Co.), 20, St. Swithin's Lane, E.C. E. WOLSELEY, Esq., 151, Cromwell Road, S.W. With power to add to their number.

LOCAL DIRECTOR. (In compliance with the Law of the State of Michigan) (In compliance with the Law of the State of Michigan)
ALFRED MEADS, Esq., Ontonagon, U.S.
Bankers—Messrs. MARTIN & CO., Lombard Street, E.C.
Brokers—Messrs. LAURENCE, SONS, & GARDNER, 3, Copthall Court, E.C.
Solicitors—Messrs. FRANCIS & JOHNSON, 22, Austin Friars, E.C.
SECRETARY—JULIAN SANDEMAN, Esq.
TEMPORARY OFFICES—62, PALACE CHAMBERS, WESTMINSTER, W. One of the vendors will join the board after allotment of shares.

On the recommendation of the Royal School of Mines, Messrs. machinery, should enable the company to extract and treat Bainbridge, Seymour, and Rathbone, mining engineers, were appointed to inspect and report on the Belt Copper Mines, and one of the directors, Mr. Coxon, M. Inst. C.E., was deputed to accompany Mr. Rathbone and personally inspect the property.

| Mines | Mines | Machinery | Machinery

Mr. Rathbone and personally inspect the property.

This company has been formed for the purpose of acquiring valuable native copper properties and mines known as the Penn, Bohemian, and Great Western, situated in Ontonagon county, State of Michigan, Lake Superior, consisting (as stated in the reports) of 3272 acres freehold land, which are sold as unencumbered by debt or royalty of any kind. The property covers an extent of over four miles on the great Lake Superior Copper Belt, which already furnishes about one quarter of the copper produce of the world, and on which is situated the Calumet and Hecla Mine, which according to the reports pays its shareholders annually over £400,000 sterling. Some of the important mines on the same mineral range are the Quincy, the Atlantic, Oscola, Franklin, Phoenix, and the first, as appears from the manager's report, has paid in dividends nearly \$3,000,000, the last dividend being at the rate of 44 per cent. per annum.

The Lake Superior Copper is pronounced to be chemically pure for practical purposes, leaving no residuum when dissolved in pure nitric acid, giving no precipitate when the solution is heated with ammonia, containing no trace of arsenic or other metal. For conductivity wire and cartridge metal it is preferable to most, and thus it always companyle a residue warket. it always commands a ready market.

The Belt Copper Mines consist of two distinct properties: 1. The Great Western and Bohemian. 2. The Penn.

No. 1. The Great Western and Bohemian. These mines, which are purchased as a going concern, having an area of 1832 acres and an extent of 1½ mile on the Great Copper Belt which carries the celebrated well-defined and continuous native copper veins, yielding on the output more than 2 per cent. of pure copper. Its village, called Bohemia, is one of importance, and it is anticipated will very shortly be in direct railway communication with Chicago.

The reports testify that extensive surface developments have been carried out, and the mines are opened by numerous shafts and levels, the extraction and treatment of the ore awaiting merely the erection of modern machinery and appliances.

Mr. Ralston in his report states .-

Mr. Ralston in his report states.—

"That the mines proposed to be purchased are in the best situations on the mineral range, that when the necessary machinery and appliances for working are erected, nothing can prevent them from returning a much larger output than the Calumet and Hecla. The Belt has been proved to go down 2700 ft. in several mines, and improves in richness in depth. Several shafts to an average depth of over 200 ft. have been sunk near the base of the bluff, and connected with levels (from an inspection of which Mr. Ralston calculates) that there is a block of mineral of 4,000,000 tons in sight, but as shafts may be sunk at least 4000 ft. before the veins leave the property there will be many times the amount of mineral abovementioned. mentioned.

Fuel, timber, and water are abundant throughout the property and its value for mining purposes is fully explained in the

The want of railway communication and economical means of transport to and from the shipping ports on the Lake and lack of capital have hitherto impeded the full development of this property.

These difficulties the directors are advised will be removed-

In the first place by direct railway communication, not only with both shores of the lake, but also with Chicago by the Marquette, Houghton and Ontonagon Railway (which is nearly completed), as shown on the map, and the works on the unfinished portion of that line are being actively pushed on,

Stamp mills

To illustrate the actual expenses of mining and producing ingot copper in this district, the following figures are quoted from the annual reports of two neighbouring mines.. viz., the Atlantic and

the Quincy.

The Atlantic output is 169,000 tons (of 2000 lbs.) Mining, milling, smelting, and all expenses, \$407,933=\$2.41, or £81,586=
9s. 8\frac{1}{2}d. per ton.

The Quincy output is 126,000 tons (of 2000 lbs.) Mining milling, smelting, and all expenses, \$505,344=\$4.1, or £101,068=16s.

Owing to the completion of the railway connection to within 1½ mile of Property the company should work at even a cheaper rate than either of these mines, but assuming 16s. per ton for expenses the following would result from an output of only 100,000 tons (of 2000 lbs.) per annum. This with a product of 2 per cent.

would give—
4,000,000 lbs. ingot copper at 18 cents per lb.

8720,000, or £144,000
Deduct cost of mining, milling, smelting,
administration, and all other expenses \$4,
or 16s. per ton of ore
\$400,000, or £80,000

Which results are far below what are anticipated by the estimates

Which results are far below what are anticipated by the estimates of the engineers.

No. 2. The Penn. This is reported to be an extensive and very important property, six miles from Bohemia, having an area of 1440 acres, and a great extent on the Mineral Belt—viz., 20 miles. The reports show that the celebrated veins are continuous and well defined, and Mr. White, manager of the Quincy Mines, states that, "The property is large, and has a length of nearly three miles of veins, and a vein which has developed larger bodies of mineral for a greater length than any other which has been developed in the Lake Superior section." Timber is very abundant both for fuel and for mining purposes; there is also a plentiful and constant supply of water. The property lies near enough to Bohemia to be worked under the same management.

water. The property lies near enough to Bohemia to be worked under the same management.

The directors of the company have reason to believe that if it be considered advisable this portion of the properties might be sold at such a price as would reduce the present cost of the mines without interfering in any way with the results estimated above. If, on the other hand, the directors feel encouraged to do so, they can, at some future period, develope this portion, and thus place the Belt Copper Mines in a position of greater importance with regard to extent and working.

working.

It is thus shown that the Belt Copper Mines possess two distinct properties, each of them taken individually being of great value.

No. 1. The Great Western and Bohemian should yield a net income of say £64,000.

income of say £64,000.

No. 2. The Penn can either be realised or can be developed as may hereafter seem desirable.

Prospectuses and reports on the properties comprising the Belt Copper mines can be had at the bankers, brokers, and the officers of the company.

The vendors sell as the absolute owners of the freehold to the company, and have fixed the price to be paid at £165,000, of which they agree to take at least £80,000 in shares credited as fully-paid up, and so much more in shares as will leave the company at least £75,000l, working capital.

Company, and have fixed the price to be paid at £165,000, of which thoughton and Ontonagon Railway (which is nearly completed), as shown on the map, and the works on the unfinished portion of that line are being actively pushed on and

In the second place, by supplying sufficient capital to this company to obtain machinery of the latest construction for rock drilling, crushing and washing, and other labour-aving appliances of all kinds, the cost of production will be reduced to the lowest point of economical working.

The situation of the veins carrying the native copper should admit of about 200,000 tons annually, which, including the cost of the construction and equipment of 1½ mile of railway to carry the ore to the stamp mills to be erected on the river, will involve an expenditure of about £40,000. These works can probably be erected and the railway completed by 1st November next.

The usual and necessary houses for the workmen have been erected, and labour is readily obtainable.

The FOLLOWING CABLEGRAM WAS SENT ON ACCOUNT OF PROPRIETORS OF THE BELT MINES TO

THE FOLLOWING CABLEGRAM WAS SENT ON ACCOUNT OF PROPRIETORS OF THE BELT MINES TO MESSES. BAINBRIDGE, SEYMOUR, AND RATHBONE, LONDON.

Bohemian Mines, Ontonagon County, Michigan, U.S.A., 28th June, 1882.

Gentlemen,—Agreeably to your instructions, I have visited and thoroughly examined your mining locations in the above district, and have pleasure in cabling you my report. Your properties, the Bohemian, Great Western, and Penn, comprising 3272 acres, are most advantageously situated, and possess abundance of prime timber, ample water power, labour, and railway facilities. The quantity of mineral is practically inexhaustible. After a careful examination of your ore, and comparing it with the produce of neighbouring mines, I am of opinion that 2 per cent. of copper is a very moderate estimate of its richness. I should say £40,000 is amply sufficient for the immediate development of the mines; this sum judiciously expended should equip the works for an output of 200,000 tons per annum. The cost of producing ought not to reach \$4 per ton for mining, milling, smelting, and all other expenses. In conclusion, I may state that after an examination of the principal mines in this district, I am convinced that you possess one of the most valuable properties on Lake Superior.

(Signed) EDGAR P. RATHBONE.

the value of the Superior.

(Signed) EDGAR P. RATHBONE.
I have carefully examined the mines and ores reported on by Mr. Rathbone, and agree with him that you possess one of the most aluable properties on Lake Superior.

(Signed) EDGAR P. RATHBONE.

(Signed) S. R. COXON.

A. BRAND, Esq., for several years Manager of Copper Mines in Newfoundland, is the present Manager of the Belt Copper Mines.

THE AURIFEROUS WEALTH OF NEW ZEALAND.

The Auriferous Wealth of New Zealand.

The recent successful crushings of the gold ores from the Kapanga Company's mines have satisfied capitalists that mining enterprise in New Zealand does not go unrewarded, for when a few hundred ton parcels yield at the rate of over 3 ozs. of gold to the ton of mineral, doubt is quickly and satisfactorily dissipated. It will have been already guessed that the Kapanga is only one of many equally valuable properties in New Zealand, and that many under local auspices have been more cheaply inaugurated, and are quite as economically managed. As an instance of this reference may be made to the Ros Gold Mining Company, which is strictly local in its organisation, the offices and management being at Hokitika, where also the solicitors and manager reside, whilst of the board of direction the Chairmanthe Hon. James Bonar, M.L.C.—and four of his colleagues are Hokitikans, two others residing at Auckland, and one at Ross. The object of the enterprise being to earn and pay dividends rather than to deal in shares, the capital was fixed at 30,000l., in shares of 1l. each, of which 20,300 were issued at par in New Zealand, and 9700 in London at 10s. per share premium. Up to the end of December, the date of the last accounts to hand, 4s. per share had been called, and the board has power to make calls at the rate of 6d. per share per month. At the first meeting of the company, held at Hokitika on Dec. 23, it was shown that after some unavoidable delay incident to obtaining the grant of their special claim and the right to pass through the freehold land lying in the course of the Drainage tail race, active operations were commenced early in March by the letting of contracts for the first 20 chains of the tail race (open cutting); since then the work, although from its character necessarily slow, has been steadily pushed forward, and it was believed that the completion of the whole would be effected by May 7 of present year. The cost of the tail race was below the estimates. The Totara and J

with, and they confidently hoped that within a short time afterwards the ground would be opened out, and the real work of mining commenced.

There being abundant evidence that there is an intention to manage the enterprise economically and well, it is only necessary to see that the character of the district is such as to give promise of success. Now, the Ross Flat, situated about 20 miles south of Hokitika, and parallel with the sea about a mile inland, is a level piece of country between the New Zealand Alps and the sea; it has been formed by the breaking down of the western slopes of those ranges, and is composed of successive beds of gravel and clay intersected by layers of auriferous deposits. The property consists of 100 acres of the flat, including the site of the town of Ross, the freehold of certain surface a areas, and some valuable water races and water rights. The lease is direct from the Crown, and the property is bounded on the south by Donnelly's Creek, and on the east by Jones's Creek, both, especially the latter, being highly auriferous. Mining land upon the gold fields is usually held in small areas under miner's rights, but only on condition of constant occupation and work, and it is exceedingly rare to find a lease given by the Crown for so large an area in so important a locality as that held by the company. The lease comprises, amongst others, the original claims known as the Cassius, Morning Star, and Excelsior. It was in working the bed of Jones's Creek that the gold was first traced into the flat, and as soon as it became known that this large flat was payable, a rush set in, and the whole of the ground that could be worked by manual labour or by the aid of horse power was marked off in ordinary mining claims. Every one of the claims that were taken up and could be worked poyable, and it very soon became known that the gold was not confined to one stratum, but that there was one layer below another with only a few feet between them. The depth of wash dirt on each of these bottoms that we

miners' rights, it was easily proved that the ground could not be worked by the ordinary method, and they were, therefore, granted in claims of small area.

It appears that registered mining companies first made their appearance at Ross in 1866, and that for a time all went on prosperously. In some of the claims the third, fourth, fifth, and sixth bottoms were reached, and the gold seemed to flow in, and fully realise the anticipations that were formed respecting it, but amidst this prosperity the Drainage Board omitted to levy rates sufficient to carry out the arrangements with the drainage company, and consequently the company became unable to meet their engagements. They had spent the whole of their capital, and had borrowed a considerable sum to enable them to complete the drainage in a satisfactory manner, and when this money became due they could get nothing beyond their mere working expenses from the Drainage Board to meet it, and during the last 12 months of their existence they became so hampered that on many occasions they were unable to procure firewood to keep the engine going at sufficient speed to keep down the water. Those claims that were working in the deepest ground were the safferers, consequently the Morning Star Company's claim was flooded to such an extent that they were unable to continue their workings in some instances for weeks. The drainage company's plant was consequently sold to enable them to meet their engagements, and was purchased by Mr. Michael Cassius on behalf of himself and the Morning Star Company. From Sept. 1, 1871, until the stoppage of the drainage engine in August, 1872, the Cassius, Morning Star, and Excelsior claims yielded 11,543 ozs. 9 dwts. 21 grs., worth 44,9231. 9s., being at the rate of nearly 366½ ozs. per week.

After a certain time had elapsed without anyone being at work, the

the drainage engine in August, 1872, the Cassius, Morning Star, and Excelsior claims yielded 11,543 ozs. 9 dwts. 21 grs., worth 44,9234. 9s., being at the rate of nearly 3664 ozs. per week.

After a certain time had elapsed without anyone being at work, the Government declared the mining leases cancelled, and the flat was neglected until the beginning of 1880. About this date a company of capitalists recognising their opportunity secured by purchase the principal water races leading to the flat, furnishing a supply of water equal to 300-horse power, and having allayed local jealousies by inviting the co-operation of the miners, made application to the Government and obtained a lease of about 100 acres, already referred to. They then formed themselves into a Joint-stock Company, with a rominal capital of 30,000L, in 1L shares, which were disposed of, as a lalready explained. The scheme decided upon by the directors was to sink a shaft for drainage purposes and for the development of the suniferous ground to any required depth; to cut a tail race from the shaft towards the sea at a depth of 75 ft. under the surface of the ground at the proposed shaft to carry off the water and the tailings from the workings: to substitute water for steam power; and to wash the gravel by hydraulicing. The results so far have been satisfactory, and with regard to the future prospects of the company the workings already referred to have been of an imperfect character, and the bed rock or true bottom, where it is usual to find the heavier deposits of gold, has not yet been reached in the deep ground, and it is not known how many auriferous layers of earth yet remain to be penetrated between the last explorations and the bed rock. In the shallow ground at the higher portion of the flat, where the bed rock descends into the soil, rioh pockets of gold have been discovered in the crevices of the rock, and it is reasonable to expect that further deposits of a similar nature and in increased quantities will be found on the troe bottom bein that gold is dispersed in large quantities through that area now remains to be demonstrated that the gold-bearing strata merely local to the seven acres which have been partially explored,

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but are dispersed throughout the whole of the company's claim, and that the machinery and power being used is capable of effectually dealing with the water. It need hardly be pointed out that if even a tenth of the results which have been obtained from the temporary workings of the companies already referred to can be secured throughout the property, on which point local opinion is very sanguine, the company has secured a most valuable property, which will yield an extended the property of company has secured a most valuable pro abundant harvest for many years to come

adolphia		n all hands, Nev Straits and Mal	*****		Tons	1,555
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were mainly confined to the daily requirements of consumers; our dealers supplying the demand freely out of their stock on hand at from 21% c. to 21% c., but towards the middle of the month, when the from 21\frac{3}{2}\cdots\$. to 21\frac{3}{4}\cdots\$, but towards the middle of the month, when the London market once more broke down, upon the failure of some French operators, a sharp competition to sell set in immediately, which brought down the value to 21\frac{1}{4}\cdots\$, on spot and to arrive, and even this is supposed to have been shaded in several instances. Those of our out-of-town dealers (and they were few) who took advantage of this feeling of despondency and replenished their exhausted stocks have been amply rewarded, for as soon as it became known that the shipments from the East would be small, and that it was impracticable to replace the sales made here, except at a price considerably above our low quotations, the cheap sellers suddenly withdrew, and holders almost daily raised their prices during the last week of the month, market closing strong and excited, the demand coming almost entirely from consumers and small dealers at 22\frac{3}{4}\cdots\$. to 23\cdots\$ c. per lb. for both spot and to arrive. or both spot and to arrive.

It will thus be observed that we have suddenly and unexpectedly

recovered from extreme despondency to a state of excitement and buoyancy, which makes it very difficult to determine how high prices may soon be driven. We have now entered the period of the year in which, during the next five months, our consumption is the heaviest, whilst our stocks spot and affoat are at their lowest point. Prices in the East are considerably above ours, everything available being steadily absorbed by the India and China markets at such prices as

to discourage our regular importers from working and supplying the future wants of our market.

In addition to this there comes the embroglio in Egypt and the In addition to this there comes the embroglio in Egypt and the well grounded fear that in the near future the Suez Canal may be destroyed or made impassable for merchant steamers. In case of war, if the canal is not destroyed, British men-of-war and transports will be passing through for the purpose of protecting it, thus preventing its immediate use for commerce. As fully 95 per cent. of the tin production of the East reaches Europe and America by steamers via the Suez Canal, any interruption in the traffic, even if only of short duration, cannot fail to have a great effect upon values here, as it is a well ascertained fact, that neither dealers nor consumers, outside of the city, hold any considerable stock; moreover sumers, outside of the city, hold any considerable stock; moreover the bulk of the spot stock in New York is in the hands of parties able and willing to hold on and make the most out of the position— the greater portion of the tin thus held having cost on an average over 25 c. per lb.

over 25 c. per lb.

According to cable advices just received the shipments from Penang and Singapore during June to United States amounted to only 160 tons, as compared with 800 tons in June 1881, and the shipments during July will, of necessity, be small.

The London market opened steadily at between 971. to 981. for spot down to about the middle of the month, when the suspension of two Paris houses, who had operated largely for the speculative account, with engagements of fully 1000 tons on open contract, once more shook the confidence of holders, and brought the value down to 931. 10s. However, during the last week, owing to high prices in the East, the small shipments thence and the fear of the closing of the Suez Canal, together with the oversold condition of the London the East, the small shipments thence and the rear of the closing of the Suez Canal, together with the oversold condition of the London market, a rapid reaction has set it; prices closing at the highest point of the month, at 991. 10s.

The Eastern markets remained steady and firm throughout the en-

The Eastern markets remained steady and firm throughout the entire depression in Europe and America, owing to the increased export demand for India and China, and to the small supplies from the mines, usual at the present season; but as soon as the great improvement in the West reached them a few days ago, their quotations advanced rapidly, closing at 831½ for unsmelted in Penang, and \$32 in Singapore, equal to 23½ c. delivered here. Stock at Penang and Singapore are supposed to be unusually light even for this season of the year, and in a few and very strong hands.

At the regular bi-monthly Billiton sale at Batavia on June 27, the reduced quantity of 11,500 peculs were sold at an average of 65-19 fl. per pecul, equal to about 22½ c. per lb. delivered here; none of which we understand is for the United States.

Subjoined are the figures of importations and floating supplies during the first six months of the present year, as compared with the same period last year:—

the same period last year:—
Arrivals in New York and Boston, Jan. 1 to July 1:— 1882.

Straits and Malana			-	
Straits and MalaccaTons	3015		3185	1
Australian	400		272	
L. and F. and refined	150		125	I
Banca and Billiton	135	*****	18	1
TotalTons	3690	*****	3710	
Straits and Malacca Tone	870		1220	1
Australian		*****		Į
Billiton			-	
TotalTons	870		1220	

Our closing prices to-day are 23 and 23 c. spot for Straits and Malacca; Singapore quoted \$32, Penang \$31 c. spot for Straits and 3s. 91d.—New York, July 5. EDWARD P. WHITE AND CO.

NEWFOUNDLAND'S FIRST RAILWAY.—On June 29 the first pastenger train left St. John's, the capital of Newfoundland, for Topsail, 20 miles distant, the first section of the line being now completed. The Newfoundland Railway was projected in the spring of last year, when the offer of an American syndicate for its construction was necepted in preference to that of a Canadian syndicate, but we believe the chief engineer, Mr. Holland, is an Englishman. The first proposal was to make 356 miles of line from St. John's to Notre Dame Bay, and 100 miles more to St. George's Bay if required, on the Colonial Government promising a subsidy of 63,000f. currency per annum for the first 300 miles for 35 years, and making the syndicate a liberal grant of land along the line. These terms were, however, ultimately of \$180,000 per annum, equal to about 45,000f. currency or 36,000f.

Tables and Memoranda for the discovered minerals. And this is the country General Felding had in his mind when penning clause 24 of his agreement. He was quite aware that there we possessed gold, silver, copper, bismuth, iron, manganese, plumbago, and lead mines, and that our resources are actually untouched—in fact, that he would secure a very El Dorado if this clause passed. And who can doubt that it would have been successfully slipped through had not attention been drawn to the subject in time. Better, says, that the province should borrow the recessary funds to construct the line, keeping the lands and mines, and pay 4 per cent. on the capital.

Tables and Memoranda for Mechanics.—The great, if not the sole, utility of tables, memoranda, and calculated results is for reference when from the hurry of practical work it is inconvenient

way will, it is expected, when completed not only open up new country but also tend to further develope the mineral resources of the island, which are very great, particularly in copper. Already about a million of acres has been secured by mining speculators in different parts of the island, and up to four years ago a very active trade was being carried on, most of the copper being shipped to Swansea. But the hard times have temporarily checked this industry, owners preferring to let the metal lie till with revived trade there are better prices. are better prices.

LEAD PRODUCTION IN GERMANY.

				1831-tons.		1880-ton:
Mechernich Min	ing Co.			22,409		20,275
Rhenish Nassau	Mining	Co		7,200	***	8,611
Stolberg Mining	Co			13,996		13,975
Commerner Min	ing Co.			2,362		2,120
A. Poensgen and	Sons .			3.189		2,900
Rothenbach Sme	elting W	orks		55	***	57
Giesche's Erben				5.489	***	5,258
Harz Prussian G	overnme	ent Mine	es	9,852		10,159
Tarnowitz	29	23	*****	8,450		7,436
Freiberg Saxon	23	30	*****	4,494		6,107
Remy Hoffmann	********			5,772	***	6,395
				2,721	***	2,069
				07 000		0= 000

More than one quarter of the whole production in Germany is produced by the Mechernich Mining Company from their own ores. This company produces only selected lead, and the ready sale and good prices which they obtain for their brand enabled them to pay 12 per cent. dividend last year, a highly satisfactory result considering the dull state of the lead market during last year.

THE QUEENSLAND GOLD FIELDS.

The latest advices from Queensland give further evidence of the striking contrast observable between the gold mines in that province and those in some other British territory which has had the advan-tage chiefly through the exertions of bankrupts and others endeavourtage chiefly through the exertions of bankrupts and others endeavouring to obtain compensation for their lost honour in hard cash regardless whence it comes. It cannot be doubted that to the man of science India presents by far the more attractive field for labour, because there is a very general opinion that the discovery of a remunerative gold mine in either the Wynaad or Mysore would entitle the discoverer with the greatest celebrities of history, whilst in Queensland no science, beyond such as is usually possessed by practical miners, is necessary. Referring to some specimens from the Cape River, North Queensland, a local authority writes that the white quartz is inlaid and fairly bristling with gold. Some idea may be entertained of the beauty and richness of the stone when we state that, assuming the mineral to consist of pure quartz and pure gold, and considering that the block out of water weighs 77 ozs. 15 dwts. and considering that the block out of water weighs 77 ozs. 15 dwts., and in water 54 ozs. 15 dwts., the quantity of gold in the block would be 387½ dwts., or 19 ozs. 17 dwts. We may add that the only crushing from the reef returned 50 ozs. to the ton. Mr. Malcolm, upon coming to terms, immediately wired for the necessary machinery to the Langland Foundry, Victoria, and within a fortnight it was all on the road to the reef.

In the Gympie district there were some good cleanings up from crushings during the week ended May 26. On the previous Wednesday No. 1 North Phœnix had their first washing up from their new batteries with a very gratifying result, the average yield of gold per ton from 444 tons of stone being 2 czs. 6 dwts.; this was the produce of the mine for the three weeks preceding. From the proceeds of this crushing a dividend of 2s. 6d. per ton has been declared, equal to 2500l. The plant and machinery are giving every satisfaction, the foundation of the batteries shewing perfect solidity, and the steam machinery working smoothly. No. 2 North Lady Mary have had an excellent crushing, the average yield per ton being over 33 ozs. gold. The greater portion of this rich parcel of stone was taken from the Lady Mary reef, and there appears every likelihood of a continuance Lady Mary reef, and there appears every likelihood of a continuance of the rich patches as driving goes on south of the winze below the 150 ft. level. The black slate stratum has been recently cut in the Gympie Freehold shaft at a depth of 210 ft.; this claim is situate in the heart of the town, on the summit of Commissioner's Hill. After the formation has been penetrated for some little depth the crosscutting of the ground to intersect parallel reefs will be commenced.

the formation has been penetrated for some little depth the crosscutting of the ground to intersect parallel reefs will be commenced.
The very extensive body of crushing stuff met with in the castern
cross-out of Nos. 3 and 4 north Glanmire, has proved to be of even
greater width than was anticipated. The cleanings up during the
week included 444 tons of stone, raised from the No. 1 North Phenix
Mine during the past three weeks, being also the first parcel reduced
at the company's own battery, yielded 1018 ozs. 10 dwts. 12 grs.
smelted gold; 45 tons from the Glanmire and Monkland, 175 ozs.
8 dwts. 12 grs.; 210 tons 17 owts. from No. 1 North Glanmire, 325 ozs.
607 tons from the Phenix p.c., raised and crushed during the past
three weeks, yielded 281 ozs. 5 dwts.; 24 tons 12 cwts. from No. 2
North Lady Mary, 834 ozs. of retorted gold.

But although the mineral wealth of Queensland is enormous it
appears that one canny Scot, McIlwraith (not the member of the
bankrupt firm of Smith, Fleming, and Co., whose names are associated with Indian gold mining), was in April and May entering
into a very dangerous negotiation, which, in effect, would transfer
gold fields from the Crown to a railway syndicate, at whose mercy
the miners in the transferred districts would be. The representatives of the transcontinental line, by General Fielding, were endeavouring to pass an agreement with the Government embodying a
clause that the definition of "Crown lands" in the said Act, the
words excluding lands "situated within the limits of any proclaimed
gold field," shall mean any gold field not already proclaimed. The
Government will, if they hereafter proclaim any gold field on any
lands of which the contractors shall be or may become entitled to
the grant, reserve all rights and royalties arising therefrom to the
contractors. The Government land adjacent to the railway line,
where it passes through the gold field proclaimed at and near Cloncurry shall be treated the same as all other freehold land gr

contractors. the contractors.

It is very properly pointed out by a local correspondent that the Government, instead of watching over the miners and their interests, is simply handing them over to the tender mercies of a railway syndicate, with whom will remain the option of locking up the vast mineral wealth of the Cloncurry and adjacent territory for an indefinite period. General Feilding, be it understood, deviates considerably from a direct line to secure this valuable portion of land. The direct line from the head of Wokingham Creek to the crossing of Leichhardt river ensures a shorter route, avoids the engineering difficulties of the McKinlay ranges, and passes through pastoral and Leichhardt river ensures a shorter route, avoids the engineering difficulties of the M-Kinlay ranges, and passes through pastoral and agricultural country of the very best quality. Thus the excuse put forward of poor country rendering construction unpayable falls through. But General Feilding fully appreciates the immense wealth of the different ores hidden away in the hearts of the M-Kinlay Ranges, and does not object to lengthening the line a little to enable him to grasp our mines on behalf of his syndicate. For, from the point of the M-Kinlay Range where the Fullerton leaves it, until St. Paul's Creek is reached, on the west bank of the Leichhardt, we find all, or nearly all, the discovered minerals. And this is the country General Feilding had in his mind when penning clause 24 of his agreement. He was quite aware that there we possessed gold, silver, copper, bismuth, iron, manganese, plumbago, and lead mines, and that 'our resources are actually untouched—in

and unreliable to undertake a difficult and complicated calculation and unreliable to undertake a difficult and complicated calculation This fact has been fully recognised by Mr. Francis Smith, whose compact little volume—2\frac{3}{2} in. by 2 in.—has just been issued by Messrs. Crosby Lockwood and Co., of Stationers' Hall Court. Mr. Smith has carefully selected and arranged all the references likely to be required by mechanics, engineers, architects, builders, or surveyors, and in such a manner that everything is perfectly clear and can be instantly turned to; although in a book but \(\frac{1}{2}\) in. thick the learning of many voluminous books is condensed. In the revision for the Press the author has had the advantage of Mr. D. K. Clark's assistance, so that full reliance may be placed upon the tables for accuracy. Press the author has had the advantage of the tables for accuracy. So that full reliance may be placed upon the tables for accuracy. Practical men will not fail to appreciate such a collection, so that Mr. Smith may certainly anticipate an extensive sale.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS,

MINEOWNERS, STOCK AND SHARE DEALERS &c 1, ST MICHAELS ALLEY CORNHILL, LONDON

When Wheal Peever shares were at a high price we had the mine When Wheal Peevor shares were at a high price we had the mine inspected, and gave our readers the substance of the report, which was very unfavourable. It was also denied by many, and we were blamed for publishing it; it has, however, proved strictly true, and those of our friends who acted upon it and rold out their shares at the high price saved themselves heavy losses, for the shares have ever since gradually gone down. The loss shown at the late meeting, however, was mainly owing to a fall of 82. per ton in the tin ore sold. The point of interest to look at now is cutting the lode at the 100 fm level. If this cuts good and the 90 improves through the cross-course, the returns of the mine may increase, and the rise in tin would also affect it favourably. We should not, therefore, sell just at present.

at present.

The average price of 182 tons of tin sold at West Basset from April 15 to July 12 was 537. 7s. per ton. The cost of raising it was 571. 7s. per ton, which is exceptionally high. In fact, when mines cost 25001. a month to work, then a fall of 71. or 81. per in in tin is a serious matter. Tin, however, may soon reach the old in the again.

The meeting of East Blue Hills passed off very satisf forily indeed, and it will be observed that the company with only x heads of stamps, and with an interval from January to May when no sales of stamps, and with an interval from January to May when no sales were made owing to alterations at the stamps, have sold tin for 707l, 17s. 4d., leaving a cash balance in hand of 1809l, 6s. 8d., and no liability whatever. In a month or two 20 heads of stamps will be at work, and returns expected to be 8 tons a month, which at 60l, per ton would yield a profit of 200l. to 250l. a month, so that the committee before the year is out hope to pay a dividend of 20 per cent. upon the paid-up capital. To do this would require 600l, and at 200l. a month the profit would be 2400l, or 20 per cent. per quarter. We hope this is not too sanguine a view, but hitherto all that has been said has been more than realised. In regard to the price of tin, the early sales of the company realised 63l. and 66l. price of tin, the early sales of the company realised 63*l*. and 65*l*. per ton. In January the sale was at 65*l*. 12s. 6d. Then tin dropped, and in May we got 55*l*. 15s. only; in June, 55*l*. 17s. 6d.; and the July sale last week advanced to 58*l*.; and we may make more than 60*l*. by Approx

60l. by August.

We stated at the time that the mine belonged to Mr. W. Pike, and at our suggestion he offered the whole of the shares in the first instance without any profit, premium, or promotion money whatever, relying upon the mine itself for his remuneration, and all those who took shares have been able to make cent. per cent. profit. It will now be seen that, also at our suggestion, he has offered the adjoining Treslow, or "North Blue Hills," to East Blue Hill shareholders at 2s. 6d, per share pro rata, and that a vote was carried that 300l. be made to him, leaving 1200l. to clear out an adit precisely the same depth as that at East Blue Hills, with four or five lodes in it, and from which quantities of tim were raised. 40 years ago near the surfrom which quantities of tin were raised 40 years ago near the surface, and where tin was little thought of. We know that several very large shareholders in East Blue Hills have applied already for double the number of shares they are entitled to; but it is understood that each is only to be entitled to a pro rata allotment, and all not taken are to belong (at the 2s. 6d. each) to Mr. Pike and his friends

The lode in the shaft sinking below the 50 at West Crebor is now 5 ft. wide, yielding large lumps of mundic and some good quality copper ore. Mundic it has always been said "rides a good horse," and a course may not be far distant in this shaft.

The points in operation at D'Eresby Mountain are valued by the agents at 11 tons per fathom; 20 tons of ore were sold a week or two ago, and 20 tons will be sampled on Saturday. The agent writes—"I have no misgiving whatever for the future and am of opinion that when we get up into No. 5 proper, and work our way to bring a shaft on the bottom of No. 4 and ultimately to No. 6, we shall be able to work on a scale that will be highly profitable.

The lode in Polrose shaft is 3 ft. wide, 15 in. solid mundic, with spar and beautiful spots of yellow ore. The lode, the agent says, is of a rich and promising appearance, and hopes it may soon lead to

Geologists' Association.—Some 30 members of the Geologists Association of London, accompanied by about a dozen members of the Yorkshire Geological and Polytechnic Society, on Wednesday started from Harrogate on a geological tour to Skipton, Bolton Woods, and district. The first halt was at Saltergate Hill, where the Woods, and district. The first halt was at Saltergate Hill, where the sandstone used for road material was examined, and found to be replete with fossils. One or two species new to the district was observed, including anomphalus and area. Passing the Dangerous Corner to Blubberhouses, the party proceeded to examine the curiosities of Cats' Crag and Cats' Gill. After lunching at the Devonshire Hotel at Bolton the party proceeded on foot to the Abbey, and examined the section of Yoredale shales exposed on the cliff opposite, and journeyed forward through the woods to the Strid. Leaving Bolton envoute for Skipton, Hambleton Rock Quarries was the next place of interest, and here the limestone exposed was almost perpendicular. terest, and here the limestone exposed was almost perpendicular. At the Draughton Quarry, three miles from Skipton, the limestone was found to be beautifully folded and contorted. It was explained that the limestone forming Skipton Rock was the lowest bed, raised to the surface by the anticlinal which passes along the valley. Further examinations were made on the moors adjoining Embsay, and the party arrived at Skipton shortly before eight o'clock. The everysion from Harrogate to Skipton was a most enjoyable one, and and the party arrived at Skipton shortly before eight o clock. The excursion from Harrogate to Skipton was a most enjoyable one, and replete with peculiarities of intesest to the geologist. The party have taken up their quarters at Skipton for the week, as it is within easy distance of many other interesting places which the members of the society intend to visit. Yesterday they left Skipton by train to Bell Busk for Malham, and explored the extensive tracts of rock in the district. By permission of Mr. Walter Morrison, of Malham Tarm, the peoplexy were alleved when wrighless in the peoplexy were alleved when wrighless in the peoplexy were alleved when wrighless in the peoplexy. Tarn, the members were allowed many privileges in the neighbour-

hood.

FLAMELESS COMBUSTION.—Certainly the most striking feature at the *oirée* of the Society of Chemical Industry at the Owens College, Manchester, was the experiments of Mr. Thos. Fletcher, of Warrington, showing the practicability of flameless combustion. It will be recollected that Mr. Jacob Reese—the inventor of the Reese fusing disc—stated his belief that if it were possible to produce combustion without flame the temperatures and duties obtained from any fuel would be much increased, and Mr. Fletcher has demonstrated the accuracy of this view. Taking a ball of iron wire about 3 lbs. in weight, Mr. Fletcher placed it on a slab of fire-clay, and directing a blowpipe flame on it for a few seconds he suddenly blew the flame out. The temperature increased so rapidly that in a few seconds the wrought-iron fused and ran into drops, and this temperature was steadily maintained. The room was darkened, but the closest examination did not show a trace of flame, although that the gas was burning was proved by repeatedly relighting and extinguishing gas was burning was proved by repeatedly relighting and extinguishing it. The same experiment was repeated in another form by directing

the flameless heat into a small fire-clay chamber, in which a refracthe flameless heat into a small fire-clay chamber, in which a retractory clay crucible, made specially for nickel melting, was partially fused and worked into a ball like soft putty, the sides of the fire-clay chamber being at the same time fused. How far this discovery can be utilised remains to be seen, but it would appear that the presence of flame, usually considered to be a sign of combustion, is really an indication of imperfect results, and the best duty is to be obtained only when flame is totally absent. It is certain that such temperatures as obtained by Mr. Fletcher without flame have never previously been obtained with the fuel used, which was nothing more than a small gas supply for a ‡-in. pipe, assisted by an air blast.

VAN MINES-MONTHLY REPORT.

VAN MINES—MONTHLY REPORT.

July 20.—As under please find my monthly report and setting list:—At the 120 west we have crossed south; at present end 21 ft., but so far as we have discovered nothing of value only a flier of lead occasionally between the joints. We shall drive the cross-cut through the lode, and then resume the driving of the lode westwards. The stripping of the lode to the full width behind this end is worth for lead at present 30 cwts. per cubic fathom. The 105 east is driving alongside the lode. We shall cross-cut north in this end very shortly, in order to prove the width and value of the lode. The 80 and 100 stopes in the back of the 105 west have been extended in the aggregate 39 ft. At Edward's shaft we are daily expecting to hole through, after which we shall square the shaft down and timber to the 60. We have for a short time suspended the driving of the permanent level, and placed the men to drive a series of cross-cuts in the stopes in the back of the 90 in order to try the footwall. They are at present crossing in the 20 fm. stopes, and have cut some spots of lead, but not rich to value. In the present end of the 15 cast we have crossed north 21 ft. and still in the lode, which for the last foot or two has improved in character, but as yet we have made no discovery here. The stopes throughout the mine continue much the same in width and produce, except those in 8th back of the 90, which are slightly less productive, but we have no doubt the 11 off is only temporary, as we expect they will improve again as we go up.

Van Hill: In the lower cross-cut here we have seen a little lead this week, and shall continue to drive the cross-cut till the hanging wall is reached. On the western side of the hill we are still driving with two men upon the north and south lode, which is strong, and showing occasionally nice spots of lead. To-day we encountered what looks very much like the east and west lode, but have not seen enough of ict to speak positively about it.—Surface: Everything at surface is

Messrs. Harrington, Horan, and Co. (Liverpool, July 14) write—Chili copper charters for second part of June were advised on July 3 as 3800 tons fine, of which 1600 tons bars and ingots with 1200 tons furnace material are for England, and 1000 tons bars and ingots for Continent. Price of bars was \$18*90, and exchange 35%d. Throughout the past fortnight Chili bar market has been steady, and a fair business done up to 674.5s, spot and 68%, forward. We close firm with few sellers at these rates. The sales of furnace material comprise at Liverpool, 255 tons Italian ore (low produce) to arrive, at 13s. 3d., 120 tons Florence ore (rich produce) at 13s. 7½d., and 100 tons Newfoundland ore at 13s. 4.4 Swansea, 1343 tons Newfoundland ore at 12s. 9d., and 192 tons at 13s. 3d., 205 tons Bolivian ore, and 407 tons Bubivian regulus, ex Emily Waters, at 13s. 6d. and 13s. 9d. respectively, 125 tons Ruby Quebrada ore at 12s. 9d., 1555 tone Libedo orea at 13s. 5d. and 125 tons Rio Tinor egalus at 13s. 9d., 200 tons Newfoundland ore at 13s. 3d., 205 tons Newfoundland one Swansea sale by tender during the past fortnight. Import of Chili copper during the past fortnight 2235 tons fine against 1992 tons fine same time last year; delivery 1336 tons fine against 1676 tons fine. Import of Other copper 1472 tons fine against 1420 tons fine against 1677 tons fine. Import of other copper 1472 tons fine against 1420 tons fine; delivery, 755 tons fine against 1634 tons fine. Arrivals here during the fortnight of West Coast, S.A., produce—Cordillera, from Valparaiso, 250 tons bars, 200 tons ingots; Vigil, from Lota, 342 tons bars; Norseman, from Valparaiso, 45 tons regulus, 165 tons bars. At Swansea,—Mary Jose, from Tocopilla, 657 tons orea, 217 tons regulus; Bertha, from Carrizal, 593 tons fore gulus. Bertha, from Carrizal, 593 tons regulus. Stocks of copper (Chilian and Bolivian) in first and second hands, likely to be available, we estimate at—

Ores. Regulus. Bars. Ingots. Barilla.

Liverpool — 1,382 31,7255 — 183 —— Messrs. HARRINGTON, HORAN, and Co. (Liverpool, July 14)

Swansea	687	3,583	*****	7,255		183		-
Total								
Representing about 24,498 tons July 15, 1881; 32,95								
of copper contained in	other for	eign or	e and	Span	ish p	recipi	tate,	2116 tons
line, against 1907 tons Ju 3367 tons fine, against 49	522 tons	July 15	, 1881	. Stor	ek of	Coro	Coro	Barilla in
Havre, 35 tons fine, again Chili in Havre, 405 tons								
copper afloat and charte	ered for	to date	, 981	0 tons	fine,	aga	inst 1	1,000 tons
July 15, 1881. Stock of tons fine, against 8900 ton			in L	ondon	, chie	ffy A	Lustra	lian, 7943

tons fine, against 8900 tons July 15, 1881.

IRON AND TIN-PLATES.—Messrs—BROCKER, DORE, and Co. (July 4) write: The trade is steadily improving, both as regards pig and finished iron. Price of Seotch warrants continue slowly to advance, and the market closed to day at 50s, 2d. per ton, Middlesborough No. 3 being worth 43s. 6d. per ton. We regard the strength of the 6hasgow and Cleveland markets as one of the most hopeful features of the present time, and a certain indication that there will be no relapse in the trade generally. In fencing wire there has been a reduction of 20s. on last quarter's list. Blues the reduction large orders have been booked, and the works are all fully employed. Shipments for the past six months show a great increase in value, equal to about 49 per cent. The Haybridge Iron Company are very busy on large colonial orders, which will keep them engaged throughout the current quarter. The improvement in galvanised iron that set in at the beginning of June has continued, and all the best makers are now well booked forward. At the meeting of the trade yesterday it was decided to advance the prices 10s. per ton upon the minimum of the past quarter. In tin-plates there is a slight improvement, but prices are still very low considering the high price of tin. At a meeting of the trade, held yesterday, the makers agreed to advance their quotations 1s. per box. Shipments show a steady increase as regards tonnage, but the demand has not yet evidently overtaken the excessive production.

Grass as regards tonnage, but the demand has not yet evidently overtaken the excessive production.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Wenn and Co., of the Stock Exchange and Finch-lane, has been: British, 34; Continental Union (Limited), 25%; European(Limited), 19½; Gas Light and Coke, A Gordinary), 175 to 177; dit. C. 10 per cent. pref., 214½ to 215; ditto D, 10 per cent. pref., 214½ to 217; ditto H, 17 per cent. pref., 214½ to 217; ditto H, 17 per cent. max., 129½ to 129½; ditto 4, 10 per cent. pref., 213½ to 217; ditto H, 17 per cent. max., 129½ to 129½; ditto 4, 10 per cent. Debenture Stock; ditto 4½ per debenture Stock; ditto 4½ pe

CARNARYONSHIRE CONSOLS.—This mine samples this time 35 tons of lead. In driving towards the lode at the bottom level they have cut into an immense rugh, the height of which, so far as seen, is about 5 fms.; this is important, as a winze can be sunk from the level above in a very short time, and effect thorough ventilation to the bottom level. As soon as the cross-cut gets into firm groun is expected that the lode will be found prolific in ore. This is important point, as it will prove the value of the mine in depth. As soon as the cross-cut gets into firm ground, it This is an

UNITED MEXICAN.-The adjourned general meeting of shareholders cosk place on July 15, when the resolution for making a call of 2s. 6d. per share, rayable on Aug. 9, was un unimously passed.

		LEAD	OI	EE	ib.	
Date.	Mines.	Tons.	Pric	e pe	er ton.	Purchasers.
July 14-Ce	entral Foxdale	80	. £14	6	6	E C. Goodhart and (
18-F	oxdale	100	. 11	12	0	Nevill, Druce, and (
20-V	an	120	. 10	8	6	Walker, Parker, & Co
d	litto	40	. 10	8	6	Alexander Ferguson
d	litto	40	. 10	15	6	ditto
		BLEI	DE	ū.		
Date.	Mines.	Tons.	Price	per	rton.	J. F. Kimmel,
Suly 20 - V	all	1(0	., E 2	7	D	J. F. Kimmel.

19,176·0 ,, 6102 = 3·142 1,396·8 ,, — = 0·222

Owing to the accidents above referred to and the necessity of hauling treating a large quantity of poor mineral that recently fell on to the western at the produce is again low.

COST AND PROFIT. 20,572.8 oits. Produce for May...... Less loss in melting into bars..... 96.9 ,, 20,475 9 oits., at 7s. 9d. per oit...... £ 7,934 8 3 7,179 14 11

tains its width, but it is somewhat more interspersed with quartzose matter than it was at a higher horizon.

No. 5 Stops, Section 298 D.—The force usually employed in the sump section was placed on this stope, and very good duty was performed. The bar was passed through, and some good pyritic mineral was extracted.

No. 6 Stops, Section 297 B.—Good progress has also been made on this stope, which is now increased in width to about 55 ft., whereof nearly 25 ft. is mineral of fair quality. The branch of killas on the north side has been nearly passed through, and judging from appearances we seem to be approaching the mineral in process of being uncovered at the north wall.

No. 7 Stops, Section 297 A.—Quarrying operations in this section, and stripping down the lode standing north, were suspended during the month, the force being chiefly employed in replacing a sollar in section 255 for their safety below.

stripping down the results of the present of the pr

CUIABA COST.

	Olts.		Tons.	Oil	ts. per	ton.
General mineral	3,960·5 620·0		206	=	2·738 3·009	
Mineral free from killas	1,967-0	**	547	=	3.595	
Re-treatment	6,547·5 366·5		2199		2·977 0·165	
Total	6,914-0	,,	2199	=	3.142	
MINE.—Return of duty for 13 working days: Mineral raised from the mine Mineral quarried per borer per diem Average attendance of borers daily	**********			284 2·5 86·9		

On July 11, dated Rio 10—" Produce for the month of June, 17,500 oits.; elid, 3°3 oits out of the month of June, 17,500 oits.; elid, 3°3 oits per ton. Cuiaba: 630 tons stamped; yield, 1°1 oit per ton.

CANADIAN COPPER.—Francis Bennetts, July 7: Hartford Mine, No. 5 Shaft: The vein in the 70 east continues to be from 5 to 6 ft. wide. of ores of about 6 per cent. wet assay. The vein in the 40 east is about 18 in. wide. of same grade of ores. We are cross-cutting north in both the 40 and 50 east.—No. 3 Shaft: The vein in the 10, east and west of shaft, is about 2 ft. wide, of average grade ores—4 per cent. to 5 per cent.—and appears to be getting larger.—No. 1 Shaft: The vein in the 35 west is improving, being now about 5 ft wide, omposed of alternate layers of ores and slates. The stopes throughout the mine are without material change, the vein averaging from 4 ft. to 6 ft. wide on the whole. There is nothing new to report from 8t. Francis or Acton Mines. The smelting works are running satisfactorily.

CAPE COPPER.—OOKIFF: Capt. Lauksbury and Capt. Henwood, May 31: The ground in the 92, north-west of No. 35 winze, still produces a little copper ore. No. 45 winze, slinking below the 92, is worth about 2 tons of copper ore per fathom. The stope in bottom of the 92, east of No. 36 winze, yields saving stuff and the one in the back of the same level, south of No. 36 winze, is worth 7 tons of copper ore per fathom. The ground in the 30, north-east of new shaft, is composed of quartz, iron, and copper ore, the latter not in sufficient quantities to value. The 63, west of north level, produces 6 tons of copper ore per fathom. Spectakel: Capts. Lauksbury and Henwood, May 25: The ground in the Spectakel: Capts. Lauksbury and Henwood, May 25: The ground in the

ties of copper ore. The 5s, east of horts level, as words to the fathom.

Spectakel: Capts. Lanksbury and Henwood, May 25: The ground in the 75 cross-cut, No. 1 north east from main level, having become entirely unproductive, driving has been suspended, and the men put to open in the productive ground passed through a few fathoms behind the end. The ground in the 75, north-west from incline, is impregnated with spots of copper ore. The other levels at this depth are being driven in a hard crystalline rock. We hope these trials will eventually lead to something valuable. The stopes, one in back of trials will eventually lead to something valuable. The stopes, one in back of 64 and one in bottom of 53, continue to yield their usual quantities of copper ore, averaging about 3½ tons each. We have begun to stope in the winze below the 64 in order to discover if possible the run of the productive ground in

pulveriser. To prevent clogging as much as possible we are selecting some of the rough quartz to break down with the small. We find by adopting this method it assists us very much in getting it through the sleves. The late heavy rain, I think, will be of some advantage to us, having now an abundant supply of water. We are going to apply it to the different reefs to lay them open a quick as possible to a greater depth. Our first operation will be at No. 3 extension. We shall commence at once to wash off the debris, and in a few weeks in hope to get it laid bare down to the deep tunnel, after which we shall require then be out through from the deep tunnel to the surface, which will be a thorough test of its value. We shall also do the same at No. 1. I believe by carrying out this course of working energetically for a little while we shall make some important discoveries, and with a very small outlay. We shall have to defer the driving of the tunnel at Fletcher's application for a few weeks. The ground is so soft and saturated with water that to do so now close timbering will be an absolute necessity: and being so far distant from home it would be rather an expensive operation. After the heaviest of the rains has passed we shall carry it out in half the time, and without timber. We are getting materials ready for a systematic working of the alluvial deposits, and shall commence in the valley near No. 3 reef. Should this prove profitable to work we have a long piece of ground before us, and a capital supply of water, which is most easential in alluvial mining. The materials will be made by the native carpenters, which will comist principally of wood, and shall less not time in getting it completed. With regard to the prospects of the property, I see meason to alter my opinion; for such a young mine the appearance of the reefs are very encouraging.

DON PEDRO.—Mine Captain's letter dated July 19: Explorations: Since my last we have been able to send more ore to the reduction, and consequently sand has ruled of highe

the produce. At the level north, the branches met with and reported in my last so far have not been productive. From this level, on the 10th, a cross-cut was started; towards the lode, which, if extensive, will we hope be met with soon.

EBERHARDT.—F. Drake: Statement of progress for two weeks ending June 24; The 6000 ft. west, total distance, June 10, 124 ft.; run for two weeks ending June 24, 14 ft.; total distance, June 10, 219 ft.; run for two weeks ending June 24, 14 ft.; total distance, June 10, 25 ft.; run for two weeks ending June 24, 41 ft.; total distance, June 10, 46 ft.; run for two weeks ending June 24, 14 ft.; total distance, June 10, 46 ft.; run for two weeks ending June 24, 51 ft.; run for month of June, 33 ft.; total distance, June 10, 57 ft; run for month of June, 23 ft. Drits 2, total distance, June 10, 57 ft; run for month of June, 23 ft. Drits No. 1 from upraise south, total distance, June 24, 18 ft.; run for month of June, 18 ft.—Remarks: In drift No. 1 the quartz continues; some days nearly the whole face is quartz. We find some chloride. Some of the quartz looks well, and we believe that as we advance it will improve and make into pay ore.—Upraise: Here the wall continues regular, and lying upon it we have quarts and at times considerable chloride; altogether it is looking very encouraging.—Drift 1 South from Upraise: I have added two more men to the face in this driving, which gives us eight men working in the upraise and drift. The rock in the drift is about the same as what we have in the upraise. In all our drivings we have quarts and low grade ore, and I believe we are in the right course or channel to find pay ore. I have atopped work in the 6000 ft. west drift, and now have our full force at work upon the north and south break, believing the ground to be more favourable than the west drift.

ENGLISH-AUSTRALIAN GOLD.—Mr. Mark Pollard, Fryerstown, June 5; The 210-ft. Level: The stopes going north at this level have been very poor this month. I have been working the bottom point of t

a few days since. He will put another shift on in this place, and hopes that next months accounts will show a different result in the miserable returns of this month. The receipts from gold sold during the month were 1874. 0s. 3d., and the payments 460. 12s. 5d., leaving a loss of 2734. 12s. 2d. on the month working. The Colonial balance at the Bank of Victoria was 6544. 7s. 3d., and there are no liabilities.

EUREKA (NEVADA) the east cross-out, in the 10 ft. level, still continues of good ore, but not in paying quantities. Progress this week, 15 ft. total, 27t. below the 150 ft. level.—Williamsburg: There is no change to report this week. The stopes are producing about the usual quantity of ore. There is about 25 tons of ore at the mine reedy for shipment. Nothing less to report.

FLAGSTAFF.—M. Gunderson, July 2: The following is report for week ending to-day:—Cross-out No. 2 running from drift in rise between Nos. 5 and level is in 45 ft., gain 11 ft.; no change. The cross-out running from drift above No. 4 level is in 81 ft., gain 7 ft.; looks more favourable. We struck small bunches of the work No. 1 and 2 levels when making connection. We struck of the st

ore, averaging about 3½ tons each. We have begun to stope in the winze below the 64 in order to discover if possible the run of the productive ground in depth.

Ital. Minks: Capis. Lanksbury and Henwood, May': Ground in the 40 north from shaft it generally composed of quarts, spotted with arsenical mund's. The winze sinking below the 25 has met with nothing valuable. The ground in the 12 south in vein has become a little more favourable. A joint has been discovered containing a thin layer of purple copper ore, apparently dipping southwards. Sinking will be commenced to prove if there is any continuation.

Returns: For May, Ookiep, 1200 tons of 27 per cent.; Spectakel, 144 tons of 30 per cent.—Bills of Lading Received: 655 tons per Glenndal, 353 tons per Rocaile, and 800 tons per Broughton.—Arrivals at Swansea: The Alonzo, Raven, and Hollybough.—Arrivals at Port Nolloti: The Powhattan, Rose of England, Sea Foam, and Esempio.

DEVALA MOYAR GOLD.—Extracted from the mine manager's report, June 22: At the different reefs there are no changes to report, and very little progrees made on account of the heavy rains. At Salomon's reef the maint turn-i has been driven 4 ft. Most of our miners have been engaged securing the tune as and shafts since the heavy rains. At Salomon's reef the main is great ore, and promising for improvement going south. The appearance of the water greater of the month is produced by the cent. of copper. This would have been 250 tons had it not been for the water greater of the water greater of course of the water greater of the water greater of the water great in m.—Macking the tune to subting the tune of the standard of the ordinary greater of the water greater of the salomon's reef the main is greater or each of the subting the working in the most substitute of the ordinary greater or each of the substitute of the work of the substitute of the substitute of the work of the substitute of the substitute of the work of the substitute of the work of the substitute of the work of the substitute of

excellent draining tracted, a varas.—M factory, c days, cru making a cluding t imittance can drive ing myse put in the Esperauz heads or mill and ager of the four heads or man average month to was 10476 but I ho during the a small chinery.
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from mis 2206 tons his, 1200 at the m on May NUNI or uo cha haft, M At Taylo passdd t the wate we do no nd size and mul haft. ? PESTA his min nearly a era. In matter a in value width of uts, an No. 1 Le and the rielding in stiff rield, when wat by the firmali brief worth 8 and schilled to led to led

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seil. The assy of the concentrating ore, gives gold 453 ozs, per ton, value \$970; silver, 1576 ozs, value \$970; silver, 1576 ozs, value \$1970; silver, 1576

PITANGUI GOLD.-T. S. Treloar, June 17: The produce for May from the PITANGUI GOLD.—T. S. Treloar, June 17: The produce for May from the treatment of 445 tons of mineral, raised during the month, amounted to 1960 eits, of gold, 2:37 oits, per ton, worth at 8s, 64, per 0t. 4501, 10s, ; the estimated out for the month at Exchange, 2136d., amounted to 573f. 18s, 11d.; leaving an stimated loss for the month of 128f. 8s, 11d. The bottom of the second diagonal shaft in the Vieira section has been reached 2 fms. below the 25 fm. level, and a large, although not very productive, vein found therein. In addition to this another small vein has been discovered at the same horizon in the third shaft; we thus have in this section five veins, numbered respectively 1 to 5, and there are more old workings still to be opened up; but the veins are, as a rule, small, notwithstanding the large excavations, and like the Francisco Autonio and have in the Jose Candido section, do not improve in descending, athough the to 250 oits. The vein from which the gold was obtained last month is at present and enough to require frequent biasting.

PORT PHILLIP AND OLONIAL GOLD.—The directors have received addes a total gold obtained, 763 oxa, 5 dwts.; average per ton, 6 dwts. 2 grs. Reduing 2394, paid 456, obtained from tributers) 1978. 28. 6d. Payments (in-184, 4s. 4s., which, added to the previous balance, left in hand the sum of POTOSL.—July 7: 301 to 325 tons milled: 178 to 200 oxa, on hand; eight days.

182. 14s. 8d., which, added to the previous balance, left in hand the sum of 111/, 15s. 6d.

POTOSL.—July 7: 301 to 325 tons milled: 176 to 200 ozs. on hand; eight days full work. Quartz poor but improving; running fuil time now.

Report of Thos. Hampton, dated Potosi, June 7: The Englishmen are now engaged fixing the plunger at the No. 5 level; the bottom is being fitted. The reads are all hung in the shaft. Stays and all nece sary arrangements will be made before the engine is stopped. Making the main connections, &c., will be made before the engine is stopped. Making the main connections, &c., will have this is done. The stopes west of main shaft have been suspended for a short time, but a winze is now in course of sinking in the bottom of the No. 8 level, and behind the above named stope, in order to prove the lode at this point, the well; the lode is 31/6 ft. wide, and a large quantity of quartz can be raised daily from this stope.—Air-Shaft: This alrage quantity of quartz can be raised daily the lode in the bottom of the shaft has been sunk during the fortnight 14 ft.; the lode in the bottom of the shaft is 20 in. wide. The stope east of this shaft and the sales been suspended for a short time in order to get the shaft down for week a plat will be cut, and all necessary preparations made to take away the quarts from this stope before the stope above is exhausted. The sinking of the

THE MINING JOURNAL.

No. 1 shaft will be resumed next week, and the main shaft as soon as the pit descript, owing to the difficulty in keeping up steam; 20 stamps worked 225 days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 354 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 ozs. of gold, days, crushing 1632 tons of quartz and manto, which yielded 254 oz No. 1 shaft will be resumed next week, and the main shaft as soon as the pitwork is fixed.

— The resident manager writes under date, Potosi, June 3: The locomotives still give an infinite amount of trouble, and prevent us from running full time. The quarts lately crushed has been poor. I have, therefore, suspended the stope west of main shaft, the quarts having been principally taken from there. The wind there is much richer. The mill engine has run very well, and we have no the collecting a consider. Binalesia are now being used in the mill, and we state collecting a consider. Binalesia are now being used in the mill, and we state the collecting a consider. Binalesia are now being used in the mill, and we state collecting a consider. Binalesia are now being used in the mill, and we state collecting a consideration of the pans and the settler ordered by Mr. Fitzge-aid. The free gold can then be all, or nearly all, collected here, and the concentrated sulphides can be shipped home in bags. I have lately inspected the pans and settlers at the Alianza de Cicapra Works, and believe they are well adapted for treating our tailings in the above manner. They are easily managed, and it takes very little power to drive them. (Similar pans and settler have been ordered for the Fotosi Company.)—Chile Mine: I begt oenclose Capt. and it takes very little power to drive them. (Similar pans and settler have been ordered for the Fotosi Company.)—Chile Mine: I begt oenclose Capt. and the plan of the mine lately sent home, and which will show you the amount of work done to June 1. You will observe that the shafts are kept well above the pans of the mine lately sent home, and which will show you the amount of work done to June 1. You will observe that the shafts are kept well above. The pans of the mill shaft will be proved to the pans of the pans of the mill shaft will be proved to the pans of the p

drill taken from the 800 level new north Grift from quarkzite. The 900 riseriom north-east drift from north-drift has been sun 18 it. in limestone and low-grade ore. The 900 winze from south-east drift from north-east drift from north drift has been sun 11 it. in limestone and the from north-east drift from north drift has been run 35 ft. in limestone and the from north-east drift from north drift has been run 35 ft. in limestone and lime from north-east drift from north drift has been run 35 ft. in limestone and lime from north-east drift from north drift has been run 35 ft. in limestone and lime

being worth now 1½ ton of lead and 2½ tons of blende ores per cubic fathom. In No. 2 stopes below No. 3 level the lode is 18 ft. wide, and worth 1 ton of lead and 2 tons of blende ores per cubic fathom.—Eastern Part of Mine, No. 3 Level In No. 2 stopes below No. 3 level the lode is 18 ft. wide, and worth 1 ton of lead and 2 tons of blende ores per cubic fathom.—Eastern Part of Mine, No. 3 Level In No. 1 stopes in back the lode now shows a width of 15 ft., which is worth 1 ton of lead and 1½ ton of blende ores per cubic fathom. In No. 2 stopes in back we are stripping down lode under the horse; the lode is worth 1 ton of lead and 1 ton of blende ores per cubic fathom. In when no ideas at to the width; it has been cut into in places for 10 ft. without even a sign of the footwall or limestone; the horse has been blasted or taken off for a height of 25 metres by a width of 20 metres, and has varied in thickness from 1 ft. 6 in. to 8 ft., thus you will see that we have and still are uncovering a large plees of lode, which will be taken away at an easy oost. In No. 2 end the lode is not quite so hard, still producing a little lead and blende ores, but not in sufficient quantity to value. We are paying now 150 ft. per metre for driving this end. Since the 1st instant we have broken about 850 tons of cruds ores, and have sent 870 tons to the dressing-floors. I am afraid the harvest season will interfere with our output for the remainder of the month, as several of our men are leaving, but we shall if possible endeavour to send 800 tons of crude ores more to the floors for the month.

SILVER PEAK.—W. MacFarlane, July 16: Animas Forks: Cut 2 ft. mineral in Norris's lode; assays 167 ozs. silver to the ton.

STANDARD DIAMOND.—F. B. Salomons, Kimberley, June 22: 1 send you this mail 1260½ carats of diamonds, and am pleased to be able to report that we are getting on more satisfactorily in the mine than I expected. To-day we are hauling with three tubs, and if no further slips take to be able to report that we are getting on

washed, 1543; number of carats diamonds found in claims, 299; number of carats diamonds found washing and floor, 434; total value of diamonds, 13002.; value of reef hauled, (301.1 in. 5d.; wages sheet, 1434.2 is, 33.—Remarks; All in core of the control of the c

MARKET ECHOES, AND MINING MATTERS.

been raised during the month, and 419 tons of or of various qualities were being prepared for sale in the colony.

MARKET ECHOES, AND MINING MATTERS.

With tin active and a steadily rising market, holders in Cornish mines have every reason to congratulate themselves upon a rather unlooked-for change in their prospects. Three months ago, when tin oa very dull and depressed period for Cornish mines, as the market for the metal, owing to over speculation by weak men, had become utterly disorganised, but, thanks to the steady and influential help that has been accorded to those who have taken a sanguine view as to the intrinsic position of the metal, everything again wears a smiling aspect, and this is now within about \$L\$ of the price ruling before the fall we have referred to. And, thanks also to the steady consumption—in fact, to the excellent statistical position of tin, there appears good reason to believe that we shall see the price at 110L—the old figure—before long. It is now about 10SL, and although for the deep mines we would wish to see a better price, to such mines as West Kitty, Killifferth, and other shallow young consumption shareholders. Still, matters are not so utterly hopeless, depressing as present price means good dividends and firm prices for shares, On the whole, we see every reason for the adventurers to be satisfied with their outlook. Tin is now at a fair price, and is pretty certain to become dearer.

It would give us infinite pleasure could we address the same words of hope to lead the shareholders. Still, matters are not so utterly hopeless, depressing as Government Electric Lighting fill has been satched with great interest by those interested in lead mines, for should the Bill be carried through domestic lighting generally by electricity will become practicable, and as lead would be used largely for the purposes of storage an increased demand for lead would evertainly result. As an example, we may state that the shares of Herodsfoot is a construction of the mines of the state of the s

"Mr. Promoter," as known by general experience, has been canadasence.

As regards Indian gold mines, the market, after drooping in the early part of the week has somewhat recovered. Indian Glenrocks have received a good amount of attention, and have risen about ½. There is no particular change in the others. Venezuelan mines have been represented by Chile, which have been bought on the general meeting held on Thursday. Potosi, on the other hand, have gone quite into the background. In American mines La Plata are firmer JAMES H. CROFTS.

BWLCH.-The underground works at this mine are being vigorously BWICH.—The underground works at this mine are being vigorously prosecuted, and another parcel of ore will be ready shortly. The new discovery of a well-defined masterly lode in the costean pit, eastern section, holds out a great future. The cross-cut in the 50, to intersect the said lode, has been commenced, and the manager fully expects to cut it rich. There is in this section over 100 fms. of virgin ground.

Mining Correspondence.

BRITISH MINES.

ANDERTON TIN.—W. J. Bowhay, July 19: I am glad to report to you that we continue in a highly satisfactory state. The lode retains its size, about 12 ft. wide, and is tinny throughout; a strong rich lode such as is but once or twice in a lifetime met with. The late rains have brought us plenty of water, and our stamps are going at their full power. After we sold the last parcel of tin on the 6th of this month we kept on dressing for our next sale, and shall shortly have a good parcel. The floors are full of tinstuff of capital quality.

and shall shortly have a good parcel. The floors are full of tinstuff of capital quality.

ASSHETON UNITED.—Joseph Garland, July 19: Last month, which ended on the 18th inst., the 40, west of boundary shaft, was driven 4 fms. 1 in., the lode yleiding generally a little saving work, but not proving as productive as the indications s month ago led us to expect. At present the lode is 3 to 4 ft. wide, containing blende and stones of lead ore. The shoot of ore met with in Jones's rise has been proved by driving to extend 3 fms. 1 ft. 9 in. west of the rise, at which point the lode became very small, and not worth following; the ground driven through will yield about 1½ ton per fathom. We have a parc of men stoping in the back of the 40 west, in a lode producing about 10 cwts. of lead ore to the fathom. The 70, west of boundary shaft, was extended 2 fms. 3 ft. 9 in.; the ground is hard and progress slow; the lode is 3 ft. wide, composed of contact slate and a little quartz, with just enough lead ore to make it worth while to dress the stuff. A stream of water is now issuing from a vugn lined with crystallised blende in the end. There was but little stoping done last mouth in the 30 west, the men having left their bargain; we hope to do more this month. We have set the following pitches: One in the 40 west, to two men, at 72, per ton; one in the 60, west of Milford's rise, to four men, at 32, per ton; and one in the 70 west, to two men, at 72, per ton; one in the 60 west, to two men, at 73, per ton of lead ore. The engines and machinery generally are working well. Since the date of last report we have sold the following parcels of ore: On July 4, 40 tons of leadjore, and on July 13, 50 tons of blende.

REDEFORD UNITED.—H. Treylae, July 18: There is no change to report on

70 west, to two men, at 7L per ton of lead ore. The engines and machinery generally are working well. Since the date of last report we have sold the following parcels of ore: On July 4, 40 tons of leadfore, and on July 13, 50 tons of blends.

BEDTORD UNITED.—H. Trezise, July 18: There is no change to report on the north lode. The tributors continue to raise their usual ouantities of ore, which is about 40 tons per month.—McCallan's Shaft, Bridge Lede: The drivages east and west at the 42 are being continued by the side of the tode, and good progress is being made. The shaftmen are busily engaged in cutting tripping that the 30, and as soon as completed, we shall commence to the tode, and in the same level east. We have just finished taking down to ore. The lode in the 30 end cast, which I estimate to yield 55t, worth at transroad to the same level east. We have just finished taking down to ore. The lode in the present end is 5 ft. wide, strong and masterly in appearance, and is worth 33t, per fathorn. I have set the men to drive by the idee of the lode, and take down same when necessary, at 7t. 10s. per fathors. The stope in the back of the 30 is worth 15t., stoping at 2t. 10s. In the 30 cast weare still stripping down the lode, which is a little disordered. The westernwinze is holed to the 80, and our ventilation is now very good. I have decided to sink a whize east at the 30 cast weare still stripping down the lode, which is a little disordered. The westernwinze is holed to the 80 and our ventilation is now very good. I have decided to sink a whize east at the 30 cast tends of the 10 cast tends of the 10 cast in much the same value as reported last worth 10, per fathorn.

CARNARYON COPPER.—W Darby, July 19: There is no change in the rise bove the 30. The 40 east end is worth 10t, per fathorn.

CARNARYON GORDER.—W Darby, July 19: In the sump below the 90 the copper is not looking quite so well as last week; but the ground is of a much more kindly appearance along the bottom. The lode in the stope below the 80 eadily decreasing, and I hope soon to be able to report the engine working its sual rate of speed. COED-Y-FEDW AND PANT-Y-BUARTH.—July 20: Coed-y-Fedw: The lode

usual rate of speed.

COED-Y-FEDW AND PANT-Y-BUARTH.—July 20: Coed-y-Fedw: The lode in the \$0, driving east, is opening out in a satisfactory manner; it is now about 1 yard wide, and we are close I think to an important find.—Fant-y-Baarth: Beth our drivings out on the course of the lode are looking very well. New joints from surface; we have obtained several lumps of ore in the sinking, and I think if we carry this down deeper we shall be well rewarded.—Rowland's Shaft: We are waiting now to get the engine up so as to proceed with operations here. CORNWALL GREAT CONSOLS.—W. Dodge, July 19: Since the report for the meeting, held in the latter part of last month, we have fixed the air-pipes from surface to within 10 fms. of the end at the \$0, and have done all other necessary work for starting the boring machine, such as widening the mouth of the cross-cout at the bottom for tip-plat, laying down tramrosad, &c. This being completed the driving of the 50 west is again resumed by six men, where the lode is full 4 ft. wide; its composition is chiefly capel and peach, intermixed with a little spar and sulphur-mundic—a very kindly end. In the 37 west, which is being driven by four men, we have recently intersected another lode coming in from the north-east, and forming a junction with the one we are driving on, increasing the size of the lode in the end from 2 to 4 ft. wide; it is composed of capel, spar, peach, and will yield about 2 cwts. of tin, or worth 54. 10s, per fathom. We hope shortly to be able to report a further improvement. Should the lode referred to coming in from the north-east prove distinct and independent to surface a cross-cut or two north in the 37, and also in the 25, east of where now intersected might be the means of laying open some profitable tin ground, which I should certainly recommend being eventually proved. We have sold a small parcel of tin this week to the Calenick Smelting Company, Truo. No. 1 weighing 1 ton 13 cwts. 2 qvs. 9 lbs., at 56, per ton; No. 2 weighing 7 cwts. 2 qvs. 23 lb

ing 7 cwts. 2 qrs. 23 lbs., at 491. per ton, making a total of 1121. 19s., less carriage 18s.

CWM DWYFOR (Brynarian Mine).—J. Davies, July 16: Pensarn: The water was down yesterday 5 fms. below the 29 north. I went down and examined this level; it is about 21 fms. in length, and a great portion of the back of the level has been atoped, but no lead is to be seen in the lode for the last 7 or 8 fms. driven; the end of the level is very frm. There is some stuff fallen down in the level, which will take two or three days to clear.

— J. Davies, July 18: We had an acclient with the bucket in the Pensarn old shaft, and we had to make a new one; it is now working all right again. I think the 20 north could be driven at 54. or 64. per fathom.

D'ERESBY MOUNTAIN.—William Sandee, July 19: Monthly Report: The No. 6 end south has only been driven about 2 ft. during the past month; the men from this bargain having been taken to go in the stopes in order to keep up a constant supply of lead stuff for the crusher without increasing the monthly cost by having any extra hands; I may observe that the lode in No. 6 end is kindly showing strong spots of both lead and blende, just as it had done for months previous. In the roof of the No. 5 (intermediate level) six men are employed rising south of the great workings followed down by the old workers to about 3 fathoms below the No. 3 proper, that being the bottom day level. In rising up south of the great workings we expect to avoid tapping the mass of debris there, which might give us much trouble; and also we shall prove whether the old people have extended the No. 5 day level further south than the great workings, and if we find it has been driven further south we shall, no doubt, be able to make very good use of it, and if not we must drive it south ourselves, for being the bottom day level of the mine it will always be one of the most important levels in the mine, as it will drain the whole hill before us to that depth. The rise referred to we are carrying about 3 fms. long an

on Saturday next.

DEVON FRIENDSHIP.—F. R. D. Daw, W. Gill, July 20: The operations at the mine are progressing satisfactorily, and a full report shall be sent you next

the mine are progressing satisfactority, and a full report shall be sent you heat we's.

DEVON GREAT CONSOLS.—I. Richards, July 20: Wheal Josiah: In the 144, east of Count House shaft, the lode is 5 ft, wide, composed of capel, quartz, peach, mundic, and some good quality copper ore.—Wheal Emma—Luclined shaft: In the 137 east the lode is 4 ft. wide, of a very promising character, and yielding good stones of copper and mundic ores.—New Shaft: New South Lode: In Bray's winze, sinking below the 190 east, the lode is 4 ft. wide, composed of capel, quartz, peach, some copper ore of good quality, and worth 2 tons of mundic per fm. In the 135 east the lode is 4 ft. wide, of a promising character, an i yielding copper and mundic ores of good quality.—Railway Shaft: In the 190 west, on the south part of the lode, the lode is 5 ft. wide, maintaining its very promising character, and worth 1 ton of copper ore and 2 tons of mundic per fithom. In the 150 eist, on the south part of the lode, the lode is 3 ft. wide,

yielding small quantities of copper and mundic ores.—Watson's: At the engineshaft, sinking below the 32, the ground continues without alteration. In the 30,
east of the western shaft, the lode is 3 ft. wide, composed of capel, quartz, peach,
mundic, and a little copper ore of good quality.

DEYON GREAT UNITED.—I. Richards, July 20: The work in connection with
casing, dividing, and putting in ladder road in Willesford's shaft from the 104 to
the 120 is progressing very satisfactorly. In the 60, west of Watson's shaft,
on the middle lode, the lode is unproductive. In the 60, west of Watson's shaft,
on the middle lode, the lode is 2 ft. wide, yielding small quantities of copper and
mundic ores. In the 50, west of Watson's shaft, the drivage is being carried by
the side of the lode for more speedy progress. The bolier for rasing steam for
air compressor is being fixed, and we expect the air receiver shortly; in the
meantime the air piping will be got on with, and no time will be lost in getting
the rock-drills at work as fast as possible.

DRAKEWALLS UNITED.—M. Bawden, July 19: The south branches in the
deep adit level driving west of engine-shaft still maintain their size and character. This level is opening up some valuable tribute ground, and we are push
ing it forward to communicate as quickly as possible with that driving east
from Brenton's shaft. Saturday next being our setting, we will next week give
a detailed report of the various points in operation. The surface work is going
on in a very satisfactory manner.

EAST ORAYEN MOOR.—Dayld Williams, July 20: The 76 west, upon the

racter. This level is opening up some valuable tribute ground, and we are pushing it forward to communicate as quickly as possible with the provide east fing it forward to communicate as quickly as possible with the provide east fing the provide of the state of the provide of the state of the provide of the state of the provide of the

whole of it will be so, when we shall proceed dressing the staff ra/sed from Inne's lode, and now at surface.—North Wheal Rose: The staffurm are clearing up North Wheal Rose shaft, and I am pleased to say that we find it in good condition as we proceed. The engineers are still engaged fixing the 100-in. engine.

GAWTON COPPER.—George Rowe, July 15: There is no particular change in the various points of operation during the past week, excepting the lode in the 117 east, where it has improved to 15 tons of mundic and ore per fathom. GLASDIR ARGENT COPPER.—J. Parry, July 19: The lode in the underhand stope, No. I shaft, is full 29 ft. wide; we met with two sinks, one by the footwall and the other by the hanging-wall, and a solid band between them. A good one at the footwall side about 10 ft, wide, and at the hanging side good 12 ft. wide. The middle part has less copper and more sulphur ore. I am not blasting any of the work at No.2 stope at present; I am only breaking the large lumps to get stuff (about 24 tons daily) for the machinery, which is working from seven to seven daily, and the stuff continues to yield a fair quantity of copper ore. We sent off to Swansea on Saturday 3 tons of No. 2 ore, and yesterday 3 tons of No. 1, and to-morrow will go off 8 tons more of No. 2 ore. We are getting along favourably.

GLASGOW CARADON CONSOLS,—Wm. Taylor, Wm. J. Taylor, July 18: South Lode: The 114 east is improved, now worth 107. per fathom; a very kindly looking lode, and we think will further improve. The 114 west worth 57: ground more favourable. Two stopes in the back of this level worth 158. and 108. per fathom respectively. Harvey's lode, in the 102 west, is small and not of much value at present, but the ground is still favourable, and we hope it will soon open out again to full size and value. We have commenced to sink a winze in the bottom of this level to prove the lode below; now worth from 32, to 107, per fathom. The 50, west, on the north part of this level. We have also commenced to drive the 90 west, on

as hast reported.

GREEN HURTH.—Jas. Polglase: Swan Shaft is worth 5 tons per fathom. No. 1 bottom end north is worth 2 tons of ore per fathom. Stope in back of bottom level north is worth 4 tons of ore per fathom. A rise in back of bottom level north to communicate to Vipond's sump, in bottom of the 30, is worth 5 tons of ore per fathom. No. 3 stope in the back of the 30 is now filled, and stopling will be commenced next week; lode worth 2½ tons per fathom. No. 5 stopes are about the same as reported last week. A rise is put through from the 30 in the south end of stopes, in order to work the branch discovered in that direction. The veil in the rise in back of the 31 is very wide, and producing good stones of fead ore. All other work going on in the usual way.

direction. The vein in the rise in back of the 31 is very wide, and producing good stones of lead ore. All other work going on in the usual way.

GREAT LAXEY.—W. H. Rowe, July 19: The lode in the 259 end, driving north of Welsh shaft, continues unproductive, but a small leader of sparry stuff forming on the footwall is probably the forerunner of an early improvement. The 247 end is again comparatively poor, and looking at the winze in the 235, in advance of this end, we can hardly expect a very valuable lode until holed and driven beyond it. We looked to be on the eve of something very good in the 235 end a day or two since, the lode widening, and yielding some rich stuff, but the one is now more scattered, though it will no doubt form again into a steady branch further on. The winze and stope in the sole of this level are respectively worth 8:, and 40!, per fathom. The stopes in the roof south are worth 12!, per fathom. The stopes in the sole of this level are respectively worth 8:, and 40!, per fathom are proposed in the 220 are worth 18!, and 15!, per fathom. The stopes in the sole of the 220 are worth 18!, and 15!, per fathom. The stopes in the sole of the 25, per fathom. The 215 end 15!, per fathom. The stope in the roof 60!, per fathom. The 215 end 15!, per fathom. The 215 end 15!, per fathom. The 215 end 15!, per fathom. The 215 end of the 202 are worth 20!, and 30!, per fathom. The wwo stopes in which being nearly holed to the 215 will render available some capital ground for stopes in both levels. Though so far of no commercial value the lode in the 35 end north continues of a very promising character, and a few days since the leader of orestuff widened to a rib of blende and lead about 6 in, thick, but is not now so good in the extreme end; to say the least, the appearances here are much more favourable than for some considerable time past, and considering the position of more than usual interest. There is also a kindiler-looking lode in the 70 end south, which it is hoped will improve as we near the

GUNNISLAKE (CLITTERS).—J. O. Secombe, C. W. Secombe, July 19: % change in the underground department of the mine since the report given at the general meeting. Everything is working in a satisfactory manner. The stack for the lower mine engine is complete, and we are now ready for the engineer is commence putting in the engines. We have for sale on Thursday next, the 20th inst., 41 tons of good quality copper ors.

GWYDTR MALCA MATED.—Wm. Sandce July 19: Clementina: In the stack of the composition of the 34 the load continues to good the virity in the continues and the continues to good the continues to good the virity in the continues to good as it did last week, but the ground seems a little casier for rising. In the 25 the load has rather improved, and we are now just over the rise, and shall not be long before we communicate with the rise. We are pushing on the dressing as fast as possible.

HINGSTON DOWN CONSOLS.—T. Richards, July 19: The engine-shaft has been sunk during the past week by nine men 3 ft. 3 in, total depth below the 25 fm. level 5 fms. 3 ft. The 25 cast has been driven by six men 6 ft., making the distance from the shaft 19 fms. 5 ft. 8 in. The lode continues to produce a little black and yellow copper ore, and is very promising. The 12 cast has been catended the past week 3 ft. by four men, total distance from the shaft 43 fms. 2 ft. 5 in. The lode contains quartz, capel, arsenical mundic, and copper ore intermixed. The deep adit, cast of south cross-cut, and east of the engine-shaft 54 fms. 4 ft. 3 in., has been driven by four men during the past week 4 ft. The lode here continues without change. The deep adit cross-cut, by four men, habeen driven during the past week 1 ft. 5 in., and is extended south of No. 2 lode 2 fms. 1 ft. 1 in. The ground is still hard, and slow for progress.

KILLIFIESTH.—John Michell, Joseph Tamblyn, July 20: We are pleased to the south of the continues wi

be in your names on recently quire a detailed account now,
LLANDEGLA.—H. Hotchkiss, July 19: [No change calling for remark is
any of our underground workings here since my letter of Saturday last. Each

be in your hands on Wednesday next; hence I consider that you will not require a detailed account now.

LLANDEGLA.—H. Hotchkiss, July 19: [No change calling for remark is any of our underground workings here since my letter of Saturday last. Each point is going on regular.

MELLANEAR.—Ohn Gibert, July 19: In the 30 cross-cut, driving south of Gundry's shaft, we have passed through the elvan, and the ground is now a light-coloured killas, in which there are small veins of spar and mundic. In the 70 cross-cut, north of main lode, east of Gundry's shaft, the ground is still mixed with a good deal of mundic and blende, and is letting out a little water, and looks as if we are very near a lode. The lode in the 90 west of shaft, on south part of lode, is 6 ft, wide, and yielding 3 tons of ore per fathom. This is opening out some good stoping ground. The lode in the 100, driving west of shaft on the main lode, is 6 ft, wide, and yielding 1½ ton of ore per fathom. This end will be very soon holed to the winze sinking in the bottom of the 90. In the 110, driving east of shaft on the main lode, the lode is 5 ft, wide, and yielding 1½ ton of copper ore per fathom, and some saving work for blende. In the 110, driving west of shaft on south part, the lode is 3 ft, wide, and yielding 1½ ton of copper ore per fathom, and oloking very promising. The lode in the winze in the bottom of the 90, west of shaft, is 5 ft, wide, and yielding 2½ tons of ore per fathom, and the ground is spare for driving. The lode in the 120, driving east of shaft, is 5 ft, wide, and yielding 2 tons of ore per fathom, and choking very promising. The lode in the winze in the bottom of the 90, west of shaft, is 5 ft, wide, and yielding 2 tons of ore per fathom. In the 190, driving east from old engine-shaft, the lode is 2½ ft. wide, composed of spar and mundic and occasional stones of copper ore. In the 10, driving east from old engine-shaft, the lode is 2½ ft. wide, composed of spar and mundic and occasional stones of copper ore. In the 10, driving east

3 tons of bluestone per fathom, and the lode has every appearance of turther improving. The lode here never looked so well for copper as at present, and, should we cut it productive at the 36 it will lay open a good section of new ground.

MOUNTS BAY CONSOLS.—W. Argall, J. James, J. Lowe, W. H. Argall, June 15. Trebarvah: We have re-set the sinking of the whize below the 62, west of Richard's shaft, to six men, at 92. per fathom; the lode is worth for copper ore 52. per fathom. This being the deepest point in the mine a small lift has been fixed in the winze, so as to enable us to make faster progress, and will commence to work on Monday next. The 55 cross-cut, south-west of engine-shaft, has been reset to six men, at 92. per fathom. In the present end the ground is congenial, producing occasional spots of copper and iron pyrites: this cross-cut is now in about 13 fms. The tribute pitch in the back of the 62, west of Richard's, is set to two men, at 14s. in 12.; the lode is worth 62, per fathom. We have also set a tribute pitch on morth lode for tin at 16s. in 12. We have at present nearly 30 tons of good copper ore realy for sale. The machinery throughout the mine is now working well.—Sydney Cove: Our new lift and plunger fixed at the 23 is working very well, and up to this time we have cleared the engine-shaft 33 fms. below the 20, and making good progress. The whim-shaft has been cleared from the 10 to the 20, and communicated to the engine-shaft. We are still clearing the levels at the 20. We have reset to four men the driving of the 10 north this is going towards the winze sinking on Browne's lode. The lode produce copper and occasional stones of tin. Three men are now sinking the winze on Browne's lode at 14. 10s. per fathom. The lode is worth for the longth of the winze 32 per fathom. In sinking this shaft 33 fathoms to the deep adit level is will be in whole and new ground to the eastward, where we have over 309 fathoms in length, and being in the side of the hill in going in that direction we shall hav

and cistern to fix plunger at the 39. The steam-whim has been completed; steam has been got up and it went to work very well. The machinery is working well.

MOUNT CARBIS.—W. Tregay, Geo. Johns, July 20: Good progress is being made in 50 cross-out north. The lode in 38 north is worth 25t, per cubic fathom, and is fully 25 ft. wide. The lode in 38 north is worth 25t, per cubic fathom, and is fully 25 ft. wide. The lode in 27 west is worth 15t, per fathom.

MYNYDD GORDDU.—Thos. Kemp, July 19: The south part of the lode opened on by the 46 end, west of cross-cut, has, for the width (5 ft.) show within the last day or two a better appearance, being principally composed of quartz of the most favourable description, which is strongly intermixed with silver-lea1 ore, and, judging from the strong indications of the lode in the externe end of the driving, we ought soon to come upon a good improvement here. The part of the lode carried by the 46 end, east of cross-cut, is composed of killas, caicspar, and quartz, showing a good sprinkling of mundic and blender I consider the lode here shows exceptionally favourable indications, and we may any day out into a good deposit of mineral. In No. 2 stope, under the 34, we have cut a strong feed of water; in consequence this bargain is suspended for a time. The different stopes are yielding silver-lead ore equal in value to last week's report. Hauling and dressing going on as fast as the nature of the work will admit, and the machinery in good order.

NEW HOLMBUSH.—H. Bennett, July 19: There is no change to notice in the 120 end south on the lead lode. The men are making fair progress. All our stopes remain much the same at issuing out with great force. I am expecting every day to meet with the south part of the lode. There is no change in the lode in the 70 east or the 70 west of the 70 east or the 70 west. The men are making fair progress. All our stopes remain much the same at last week. I expect to be dropping the pumps to the 132 to-morrow. Hope is commence the forking this

and we from t door-p day be still to to day

last report of 11 for place of dropping to press This we which

PAN. and 1½ winze i tom of so well. stope, is the stope, is the stope in the week have not the engine we sen not beek the shall be

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PENILYLIS.—S. Hannatz, J. Gayne. Jab 13: The fole in the 60 west end from Blue Hills is without much alteration. The 70 east is poor. The lode in the 60 north is of a fairly good width, but is thus far unproductive. The south lode in the 60 west end is small and unproductive. The winzs below the 55 is worth 20%, per fathom, and the 40 west end is in connection with a fault, and the lode is unsettled.

PENNANT.—July of Improved since the date of my last report, and we are busy upon the dressing-doors.

PHŒNIX AND WESP PHŒNIX UNITED.—John Truscott, July 20: Setting Report: Secombe's Blatt. To cut out the lode at the 200 fm. level east by six men, at 7s. per ton; lode worth 11% per cubic fathom,—Old Sump Blatt. The 150 fm. level to drive in a southerly direction west by two men, at 8s. per fathom; the ground here is more favourable for driving. The 150 fm. level to drive in a southerly direction west by two men, at 8s. per fathom; the ground here is more favourable for driving. The 150 fm. level to great the second of the second worth 14s. per fathom. The 120 fm. level to drive west by two men, at 4s. per fathom; lode worth 14s. per fathom. The 120 fm. level to drive west by two men, at 6s. 3s. per fathom. The 110 fm. level to drive west by two men, at 6s. 10s. per fathom. The 110 fm. level to drive west by two men, at 6s. 10s. per fathom. The 110 fm. level to drive west by two men, at 6s. 10s. per fathom. The 110 fm. level to drive west by two men, at 6s. 10s. per fathom. The 110 fm. level to drive west by two men, at 6s. 10s. per fathom; lode worth 15s. per fathom. The 100 fm. level to drive west in the granite by the side of the lode by two men, at 4s. per fathom; lode worth 16s. per fathom in lode worth 16s. per fat

topes and tribute pitches throughout the mine are where the safe week.

BOMAN GRAVELS.—A. Waters and Son, July 20: We have been underground are to-day, and consider the mine to be opening out well. The 125 north will be to-day, and consider the mine to be opening out well.

THE MINING JOURNAL.

THE MINING JOURNAL

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making better progress with the dirtying time we put the larger drill; & work.

SINCLIEM,—July 20: We en making very good progress in the despending of the new shaft. After passing through the shale bed we got into a very produce dispersed amongst this. I string the past were yet yet into a very produce dispersed amongst this. I string the past were that the appearance of the ground, as the strongest possible evidence that we shall find the lode rich when interested.

No. 100 to NOTURROW.—We make the weight the preparance of the ground as the strongest possible evidence that we shall find the lode rich wells in the rest of the lode in the 40 end, west of Marshall's shaft, is worth 121, per fathom. The sole of the lode of the back of the 50 east is worth 52, per fathom. The 60 end of the lode of the back of the 10 east is worth 132, per fathom. The 61 end is shaft is communicated with the rise coming up from below; the lode in the rise referred to is worth 147, per fathom. The 50 east is worth 148, per fathom, and shaft is communicated with the rise coming up from below; the lode in the rise referred to is worth 147, per fathom. The 50 east of King's, is worth 122, per fathom. The stope in the back of the 10 east is worth 148, per fathom. The 60 end, cast of Finatation, is below the 60 east is worth 148, per fathom. The 60 end, cast of Finatation, is rise in the back of the 70, on the morth part of the lode, yelveds axing work for copper. The stope in the back of the 50 east is worth 122, per fathom. The 50 east of worth 148, per fathom for short 148, per fathom for lode of the per fathom for short 148, per fathor 158, per fathor

4t. per fathom; driving at 60s. per fathom. The lode in the 50 end east is 4 ft. wide, and worth 5t. per fathom: driving at 55s. per fathom. The lode in the rise in the back of the 60 west is 5t. wide, and worth 10. per fathom; rising at 55s. per fathom.

SOUTH WHEAL FRANCES.—Charles Craze, July 17: On Tuesday morning last our main rod near the adit level at Marciott's shaft broke, when the engine being freed of its load came indoors with a heavy bang, breaking the new spring beams, and causing a very small crack in the bottom flange of the bottom of the cylinder, and until we had our rods, &c., all right again to move the engine, we feared something worse might have occurred to the piston, &c.; however, I am happy to say that the engine sustained no injury whatever more than the small crack above referred to, which does not affect it working in the least, and, perhaps, never will. The rod which gave out was perfectly sound above and below the linings when it broke. The defect was caused by the linings, so that no one could have seen it. The engine and rods were set to work again on the Wednesday night, since which they have been working splendidly, and we are forking the waier with first-class speed.

TREGEMBO.—E. Chegwin, July 18: The engine-shaft sinking by 16 men is down 10½ fms. from adit level, or about 24½ fms. from the surface. During the last month the shaft has been sunk 11 ft.; considering the size of the shaft and state of the ground, we are making very fair progress. Adit end, east of Pinnick's shaft, on Tregembo Lode: This tin lode is 4 ft. wide, and worth 25t per fathom; we have driven 20 fms. east of Pinnick's shaft on the course of this lode, or 28 fms. from the cross-course. The lode has varied from 4 to 8 ft. in width, and in value from 25t. 40d. per fathom for the whole distance. The new south lode is 1ft. wide, producing grand stones of copper ore, and is worth about 7t. per fathom; we have driven on its course about 5 fms. Considering the state of the weather, surface operations are going

part of the mine we continue to containe to the state week Kitty dat lode.

A purpose to drive a cross-cut at this low in the seat week Kitty dat lode.

In the state of the s

WEST LISBURNE.—The new work is being pushed forward with peed, so as to have the mine fully equipped at an early date.

MINE INSPECTION IN NORTH WALES, - With reference to the

MINE INSPECTION IN NORTH WALES.—With reference to the report of the Government Inspector, our North Wales Correspondent in his last week's letter says:—"There is surely more limestone raised from the whole of the quarries of Wales and Shropshire than 18,834 tons," and he also remarks: "It is satisfactory to find that with the exception of a few dressers of ore at Amlweh and in Cardigan no women are employed at the mines." In explanation Dr. C. Le Neve Foster writes:—"With reference to the limestone please understand that my charge and the small that my charge a that my returns apply to underground quarries only, hence the small total appearing in my report. I do not exactly see why it is satisfactory that few girls are employed on the dressing-floors. The oc supation is healthy, far healthier than factory work.

THE METAL TRADE. TO

HOR COPPER, PPER, FIN, LEAD, &c., apply to-MESSRS. PELLY, BOYLE, AND CO., SWORN METAL BROKERS,

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OLD METALS of EVERY DESCRIPTION PURCHASED for CASH.

The Mining Market: Brices of Metals, Ores, &c.

METAI	MARKET-LONDON, JULY 21, 1882.
IRON. £ s. d. £ s. d.	TIN. £ s. d.
Pig, GMB, f.o.b., Clyde 2 12 0	English, ingot, f.o.b108 0 0-109 0 0
, Scotch, all No. 1 2 12 9- 2 13 0	, bars ,109 0 0-110 0 0
Bars, Welsh, f.o.b. Wales 5 10 0- 5 12 6	refined110 0 0-111 0 0
in London, 6 2 6- 6 5 0	Australian
, Stafford., , 7 2 6- 7 5 0	Banca nom
, in Tyne or Tees 6 2 6- 6 5 0	Straits105 0 0-105 5 0
, Swedish, London10 0 0	Сорркв.
Rails, Welsh, at works 5 10 0- 5 12 6	Tough cake and ingot. 70 00
Sheets, Staff., in London 8 10 0	Best selected 72 0 0
Plates, ship, in London . 9 0 0	Sheets and sheathing, 78 0 0- 79 0 0
Hoops, Staff., 7 5 0- 7 10 0	Flat Bottoms 81 0 0- 82 0 0
Nail rods, Staff., in Lon. 6 15 0	Wallaroo 72 0 0
STEEL.	Burra, or P.C.C 71 0 0
English, spring 12 0 0-18 0 0	Other brands nom. 66 0 0- 68 0 0
cast30 0 0-45 0 0	Chili bars, g.o.b, 68 2 6
Swedish, keg15 0 0	QUICKSILVER.
, fag. ham15 10 0	Flasks, 75 lbs., war 5 17 6
Rails, at works 5 12 6- 5 15 0	PHOSPHOR BRONZE.
Light, at works 6 12 6- 7 2 6	Alloys I., II., III., and IV £125 0 0
LEAD.	, VI. and VII 140 0 0
English, pig, common., 14 7 6	,, XI., Spl. bearing metal 117 0 0
. L.B14 12 6-14 17 6	BRASS.
W.B15 0 0-15 2 6	Wire 7¼d
, sheet and bar 15 2 6	Tubes 9
pipe15 12 6- —	Sheets 7¾
red16 10 0	Yel, met, sheath, & sheets 61/461/4
white19 10 0-21 10 0	TIN-PLATES.* per box.
patent shot17 5 0	Charcoal, 1st quality 1 10-1 20
Spanish	,, 2nd quality 0 19 0- 1 0 0
NICKEL.	Coke, 1st quality 0 17 0- 0 18 0
Metal, per cwt,15 0 0-16 0 0	, 2nd quality 0 16 0- 0 17 0
Cie,10 per cent. per ton,20 0 0-25 0 0	Black per ton 15 10 0
SPELTER,	Canada Staff or Gla 1
Bilesian16 12 6-16 17 6	at Liverpool 12 0 9-
English Swansen17 10 0	Black Taggare 450 of
Bheet sinc20 15 0	14 × 10

At the works, is, to is, 6d, per box less for ordinary; 10s, per ton less for nala; 1X 6s, per box more than 1O quoted above, and add 6s, for each X, rne-plates 2s, per box below tin-plates of similar brands.

"At the works, is, to is, 6d, per box less for ordinary; 10s, per ton less for Canada; IX 6s, per box more than IC quoted above, and add 6s, for each X. Terne-plates 2s, per box below the plates of similar brands.

REMARKS.—During the past week the MetalMarket has remained extremely steady, the tone for the most part being good. There is a fair amount of legitimate business doing at the present time, and this tends to give support to prices, and also to encourage speculative buying, out at the same time what speculation is now going on does not appear to be so much in anticipation of large returns and profits being made during the immediate future, but rather the disposition is to look far ahead, when some of the present difficulties which surround our markets may be overcome; and when the summer months have passed, and the autumnal trade begun, there are dearer rates confidently looked forward to, caused from the transacting of a good bone fide trade, and now while such sanguine views are entertained prices display a hardening tendency, and an absence of sharp fluctuations has characterised our markets almost all round. Our markets have recovered from their previous languid condition, while a steady improvement may now be looked for, and which may lead to a thorough restoration of confidence and the re-establishment of a healthy feeling throughout the whole trade. Of course, there are still some few adverse influences work to cheek trade, and some features which bear a local dietri mental effect upon the separate metals, but here we have more particularly to take circumstance collectively, considerably outweight those which may tend to retard business collectively, and in looking at them in this way it does seem as though the few homework of the form harvests may depress the markets, but then against these adverse influences we have to renember that consumers and shippers are reported to favourable events of have been buying in somewhat aparing quantities, while here it may be well to state that the little ext

nounced for the first half of the present month as only 1400 tons, which greatly tended to strengthen the market, for there were many operators who had built their hopes upon light charters, and many operators who had built their hopes upon light charters, and a limited quantity only being advised, a good tone was naturally given to the market. Buyers to some limited extent became more eager to effect purchases, but the great support which seems to be given to the market at the present time does not appear to be altogether the result of large purchases, but rather a combined reluctance on the part of holders to make sales, so that during the past week, when purchases have had to be made, buyers have had to pay rather stiffer rates. The rise which has been effected is chiefly visible in Chili bars, other descriptions, although firm, not having undergone any alteration, while the advance in Chili bars has been steady, stiffening to

e extent of about 2s. 6d. per ton per day. A gradual rise such as this can ordiy fail to improve the tone, and implant a more cheerful and confident hardly fail to improve the tone, and implant a more cheerful and confident feeling, and mere particularly so just now, when manufactures report holding a very fair number of orders, sufficient, in many instances, to give regular employment to their mills for some weeks hence. Taken on the whole, the market is apparently in a sound and satisfactory condition, and with the extra business that is doing, it remains to be seen whether deliveries have exceeded supplies, which cannot be ascertained until the end of the month, when statistics are made up; but unless the deliveries are exceedingly good; it is a little questionable whether stocks will be reduced, because the Chili carters for the latter part of June were very heavy, and they will have to be taken into account when the next statistics are compiled. The bi-monthly returns of Chili produce show the imports for the first fortnight of the present month to have been 2235 tons, and the deliveries 1335 tons, while the imports of other kinds of copper for the same time have been 1472 tons, and the deliveries 755 tons. These returns are not altogether satisfactory, for they show the imports to have been in excess of those for the same time last year and the deliveries 1835. The stock of Chilian and Bolivian produce in first and second hands in Liverpool and Swansac on the 14th inst. was 24,498 tons, against 23,599 tons on the 30th uit.

IRON.—The demand for manufactured iron remains fair; and, although there are not a very large number of orders being placed,

although there are not a very large number of orders being placed, yet prices are rather dearer, sellers all round being relicatant to make concessions; in fact, manufacturers generally report that they have no difficulty in obtaining their quotations, and, therefore, there is no necessity to endeavour to stimulate the demand by accepting reduced rates. The control of the state of the market there, prices being reported strong, with an active business doing. The statistical position of the market has not undergone much change, the undernoted returns only showing a slight reduction in the stock, but at the same time slipments are maintained alwance has been made, and the market search the submitted of the market has not undergone much change, the undernoted returns only showing a slight reduction in the stock, but at the same time slipments are maintained advance has been made, and the market state of the market should be characterised by condiderable firmmens, and that there also be exceedingly good; and, although prices are rather irregular, yet a decided advance has been made, and the market services considerable support from legitimate causes. With such advices as these before the trade it is not surprising the market should be characterised by condiderable firmmens, and that there also rathe, and the surprising at the corresponding time for the last few previous years, yet they are sufficiently moderate to rather stimulate than to check trade, and are low when taken in comparison with times thinked the provision of the trade, there are also many transactions being carried through for speculative account, and which has also at times imparted strength to prices. Owing to the trade, there are also many transactions being carried through for speculative account, and which has also at times imparted strength only the surprising of the trade, there are also many transactions being carried through for the day with buyers at 50s. 304, while on Wednessay the market remained firm with transactions being done at 50s. although there are not a very large number of orders being placed, yet prices are rather dearer, sellers all round being reluctant to make concessions; in fact, manufacturers generally report that they have no difficulty in obtaining their quotations, and, therefore, there is no receivity to release the strength of the property of the strength of t

the works report being very busy. Prices remain steady, and without quotable change.

TIN-PLATES.—There is no material change in the state of this

market, prices being strong, doubtless due to the higher value of tin, and also to the existence of a fair demand.

SPELTER.—The market is quiet, and without any alteration in

LEAD is dull at about previous rates

The MINING SHARE MARKET has been rather more active this week, but without much variation in prices, which for the most part

week, but without much variation in prices, which for the most part continue low, and in many cases merely nominal.

The mines dealt in have included East Caradon, East Blue Hills, West Kitty, Wheal Agar, Wheal Peevor, Dolcoath, Roman Gravels, West Crebor, Wheal Crebor, Bedford United, and a few others.

Tin has been very firm, and advancing all the week, but no change had taken place in the standards for ore until Friday, when it advanced 2l. Shares have been rather more dealt in, and some have advanced. Blue Hills, 1 to 1½; Carn Brea, 11½ to 12½; Dolcoath, 72 to 74; Drakewalls, ½ to ¾; East Lovell, ½ to ¾; Killifreth, 5½ to 5½; South Condurrow, 8 to 8½; South Frances, 11½ to 12; West Basset, 10 to 11; Kit Hill, ½ to ¾; West Frances, 9 to 10.

East Blue Hills have advanced to 10s. 6d., 12s. 6d.; at the meeting, full particulars of which will be found in another column, the accounts show a cash balance in hand of 1809.6 s. 8d., and no liability whatever. During the exploratory work and erection of wheels

accounts show bility whatever. bility whatever. During the exploratory work and erection of wheels and stamps, the former having resulted in the laying open of tin ground estimated at 6000*l*., tin has been sold from six heads of stamps for 713*l*. 10s. 3d. In a few months 20 heads will be at work, and the returns increased, it is estimated to 8 tons, which at 60*l*. per and the returns increased, it is estimated to 8 tons, which at 60t. per ton would yield 2001. to 250t. per month profit. The agents conclude their report by saying—"We consider you have in this mine a most promising and valuable property, and one which will ultimately well repay you for all your outlay." Polrose, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; this mine is looking better in the shaft. Wheal Agar, 17\frac{1}{2}\$ to \$17\frac{3}{2}\$; Wheal Basset, 9\frac{1}{2}\$ to

better in the shaft. Wheal Agar, 17½ to 17¾; Wheal Basset, 9½ to 9¾; Wheal Grenville, 10½ to 11.
Wheal Peevors have declined to 7½ to 8½; Wheal Uny, 3½ to 3¾; West Peevor, 11½ to 12; at the meeting the account showed a balance against the mine of 983ℓ; the tin sold realised 2071ℓ, cost 3065ℓ. The agents hope to return 18 tons of tin per month. Cook's Kitchen, 38 to 40; at the meeting here a loss was shown on four month's working of 17ℓ, and a balance against the adventurers of 1649ℓ. The tin sold, 81 tons, realised 5066ℓ. East Pool, 55 to 57, ex div.; at the meeting a dividend of 1ℓ. 15s. per share was declared. The accounts showed the sales 20,663ℓ; copper, 705ℓ, ; arsenie, 500ℓ.; wolfram, 100ℓ. This profit at the quarter was 11.948ℓ, and after wolfram, 1001. This profit at the quarter was 11,9481, and after payment of dividend at 35s. per share (11,2001.) a balance was carried forward to the reserve fund of 7481. West Kittys have advanced to 11½ to 12; the 80 east is worth 251. per fathom; 72, 91; stopes in back, 401; and it is said that a good profit will be shown at the meeting on the 26th, which is to be held on the mine. Trevaunance, 2½ to 2½; the meeting here will also be held on the mine on the

26th. Tregembo, 3½ to 4; South Crofty, 10½ to 11; Goodevere, 1½ to 1½; New Trumpet, 1 to 1½; Tincroft, 12 to 13; West Poldice, 4½ to 5; Wheai Kitty (St. Agnes), 1 to 1½; West Godolphin, 1½ to 2. Copper has been firm, and one or two mines have been in favour, but there is little change in prices. The standard for ore advanced 1l. at the Ticketing on Thursday, produce 5½, standard 11ll. 2s. Bed. ford United have been more in request, and advanced to 1½, 2; Carnarvon, ½ to ½; Devon Great Consols, 5 to 6; the ore, 925 tons, realised 1898. 1s. 6d. Devon Great United, ½ to ½. East Caradons have advanced from 1s. 6d. to ½, ½; at the meeting a call of 2s. 6d. per share was made. Mellanear, ½ to 5 x. d. announced last week; Devon Friendship, 5s. 6d. to 6s. 6d.; the mine continues to look well, and the agents will give a full report next week. West Crebor, 12s. to 14s.; the lode in the shaft is 5 ft. wide, with lumps of mundic in it which is considered a good sign. Wheal Crebor, 2½ to 2½; the agents now report that since the meeting last week the No. 1 winze, below the 120, is reduced to 2 ft. wide, with stones of ore, and No. 2 affected by a flaw of spar, and reduced in value to 40l. per fathom. Gunnislake (Clitters), 2½ to 2½; the ore, 441 tons, sold for 2945l. 17s. 6d. Marke Valley, 5s. to 10s.; at the meeting a call of 4s. per share was made. The ore, on Thursday, 160 tons, made 529l. 3s. Mona, 4½ to 5; Mona Consols, 1 to 1½. South Devon United, 17s. 6d. to 22s. 6d. South Penstruthal, ½ to ½; at the meeting the accounts showed liabilities over assets of 966l. 19s. 1d., and a call of 5s. per share was made. The accounts showed liabilities over assets of 966l. 19s. 1d., and a call of 5s. per share was made. The accounts showed liabilities over assets of 966l. 19s. 1d., and a call of 5s. per share was made. The accounts showed liabilities over assets of 966l. 19s. 1d., and a call of 5s. per share was made.

529. 3s. Mona, ¼ to 5; Mona Consols, I to 1½.

South Devon United, 17s. 6d. to 22s. 6d. South Penstruthal, ½ to ½; at the meeting the accounts showed liabilities over assets of 366. 19s. 1d., and a call of 5s. per share was made. The arrears on shares (501l. 15s.) and forfeited shares being credited (537l. 15s.). The prospects are encouraging. North Penstruthal, 10s. to 15s. the accounts here showed liabilities over assets 891l. 17s. 2d., and a call of 4s. per share was made. The prospects here are very good. The accounts at Cathedral showed liabilities over assets 293l. 0s. 5d. and a call of 2s. 6d. per share was made. The prospects in the bottom of this mine are most encouraging, seeing that the shoot of ore discovered by the old workers in dipping east and already in the shaft, and in a few. feet sinking the lode, the agents think, will be more productive. West Caradon, ½ to ½; Parys Copper, 8s. to 10s. Prince of Wales, 9s. to 11s.; West Seton, 17½ to 18½. New Cooki Kitchen, 5½ to 6½; at the meeting the accounts showed a loss on four months of 369l., and a debit balance of 1263l.

LEAD shares are still quiet, and very little business doing. Lead and blende are both firmer. Vans are quoted 5½ to 6; Great Laxey, 17 to 18; Roman Gravels have been dealt in at 8½ to 9; Tankerville Great Consols, 4s. 6d. to 5s. 6d.; they have cut through the north lode 8½ ft. wide in the 232, worth 1½ ton per fathom. At Potter's pit No. 1 winze, below the 105, is worth 20 cwts., and No. 2 winze 30 cwts. per fathom. Bog improves; they have sampled 100 tons of lead ore from the three mines. East Roman Gravels, 15s. to 17s. 6d.; mine looking as usual. Gwernmynydd, ½ to 1; D'Eresby Mountain, I to 1½; the mine sold 20 tons of lead early in this month at a little over 9l. per ton, and sample 20 tons more on Saturday. The points in operation are worth 11 tons per fathom in the aggregate. Coed-y-Fedw, 1 to 1½; Goddard's, 1½ to 1½; Great Holway, 5 to 5½; Herodsfoot, 1s. to 2s.; Leadhills, 2½ to 2½; Pennant, 4½ to 5; Pen-yr-Orsedd, 10s. to

Darren, 12s. 6d. to 17s. 6d.; West Holway, 1 to 1½; West Lisburne, ½ to 1½.

FOREIGN MINES.—Akankoo. ½ to ½; Alamillos, 1½ to 2: Almada and Tinto, ½ to ½; Anglo-African Diamond, 6 to 7; Broadway, ½ to 2½; Canadian Copper and Sulphur, ½ to 1½; Cape Copper, 51 to 53; Chile Gold, ½ to ½; Copiapo, 3 to 3½; Devala Moyar, 1 to 1½; Devala Central, ½ to ½; Eberhardt, ½ to ½; Fortuna, 3½ to 4; Frontino and Bolivia, 2½ to 2½; Indian Consolidated, ½ to ½; Indian Glenrock, 1½ to 1½; Indian Phœnix, 1½ to 1½; Indian Trevelyan, ½ to ½; La Plata, 2 to 2½, and in demand; the value of the fortnight's consignments to the smelters has been 17,066l.. Linares, 4 to 4½; Mason and Barry (to bearer), 16½ to 17½; Nouveau Monde, ½ to ½; Ooregum, ½ to ½; Panulcillo, 6 to 6½; Pestarena, ½ to ½; Richmond, 7½ to 8½; Rio Tinto (registered bonds), 100 to 102; shares to bearer, 24 to 25; Raby and Dunderberg, 1½ to 2½; South-East Wynaad, 3 to 3½; St. John del Rey, 150 to 170; Tambracherry, ½ to 1½; Tharsis, 41 to 42; Wentworth, ¾ to ½; Wynaad Perseverance, 1 to 1½.

Bratsberg, 1½ to 1½; Don Pedro, 6s. to 8s.; Tolima, 2½ to 3½; Colombian Gold, ¾ to ½; Gold Hill, 1 to 1½; Birdseye, 1½ to 1½; Colombian Gold, ¾ to ½; Gold Hill, 1 to 1½; Birdseye, 1½ to 1½; Colombian Gold, ¾ to ½; Gold Hill, 1 to 1½; Birdseye, 1½ to 1½; Kapanga, 11-16ths to 13-16ths; Michipicoten, ½ to 1; Placerville, 1 to 1½; Yuba, par to ½ prem. Organos, 2½ to 2½; these shares are again firmer, large transactions having taken place during the week. A report, dated July 8, from Mr. Gledhill, manager of the Frias Gold and Silver Mines of the Tolima Company (Limited) has been received, but was received too late for publication; it tends to confirm the reports of the manager as to the large and profitable returns.

The Market for Mine Shares on the Stock Exchange has been

The Market for Mine Shares on the Stock Exchange has been somewhat more active during the week, but the business has been chiefly confined to foreign, and especially to Indian, mine shares. Considering the excellent position of tin and copper, it is surprising that mines producing those metals are not more sought for. Perhaps the further rise of 2l. in the tin standards, noticed in the telegraph hely many how the desired of the the least this president.

that mines producing those metals are not more sought for. Perhaps the further rise of 2l. in the tin standards, noticed in the telegram below, may have the desired effect. At the close this evening there was much more disposition to buy.

Our usual telegram from Cornwall this evening says:—A further advance in the tin standards of 2l. per ton was made by the Cornish smelters to-day consequent upon the improved position of the tin market. During the week a firm tone has characterised the share market, but business has been rather restricted to the leading shares. At East Pool meeting a profit of nearly 12,000l. was reported, and 35s. per share dividend declared. At West Peevor a capital report was presented, the loss on the quarter being 105l., but 100ol. had been spent in improvements. At Cook's Kitchen yesterday a loss of 17l. was reported, no call being made. Cathedral Consols has called up 2s. 6d., North Penstruthal 4s., and South Penstruthul 5s. per share. New Peevor has 137l. in hand. At Truro yesterday 1986 tons of copper ore realised 7446l., the standard advancing 1l. per ton. At New Cook's Kitchen meeting yesterday a loss on four months' working of 369l. was reported, leaving a balance of 1263l, against the mine.

In Electric Light Companies shares there has been a fair amount of business done, but prices continue to fall heavily, and although the market does not close at its worse, the quotations show a decline as compared with last week. Much injury has been done to electric companies generally by the abnormal condition of the Parent Brush's. It is now prominently announced that the Anglo-American Brush Electric Light Corporation announce a dividend at the rate of 200 per cent. per annum, but it is not stated that the profits have been chiefly derived from the sale of concessions, and that this is a merely transient source of profit, and is daily diminishing. This is pretty evident from the fact that the City (London)

that this is a merely transient source of profit, and is daily diminishing. This is pretty evident from the fact that the City (London) Commissioners of Sewers on Tuesday, after much discussion, adopted a report of a Committee deciding not to proceed further at present with the electric lighting of the City, owing to the enormous cost of the electric light compared with the charge for gas. The fact is that the industrial application of electricity is yet in its infancy, and many of the best arrangements are only now coming forward. On Tuesday evening there was a demonstration of the Gümpel arc and Fitzgerald incandescent lamp by the Phonix Company—both lamps are excellent, and are referred to in another column. Mr. Jablochkoff, the inventor of the "candle" bearing his name, and which is certainly the most simple known, has submitted to some scientific friends in London a new electric motor, which,

to some scientific friends in London a new electric motor, which, while giving greater results than the motors at present known, has the merit of extreme simplicity. The cost of the new dynamo is trifling, and it is applicable to a variety of industrial purposes as well as lighting. The details respecting the machine will be published in next week's Mining Journal.

Souback and Catir Alan shares are reported to have been in demand, in consequence of the company having received their first parcel of rich ore, which is now in the hands of Mr. F. Claudet, the assayer, of Coleman-street. It consists of a sample of about 2½ or 3 cwts., and appears to be a carefully dressed or picked sample of mixed lead and blende of not unusual appearance. It is, of course, impossible to state the value accuralely by inspection, especially st the separation of those two metals is a costly and often difficult

sample Claudet point. piece," 8700l. I cially s fraction would send th of 1l. cash as the sa 1400 ft

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process. It must be distinctly understood, however, that this sample has no connection with the specimens referred to in Claudet's assay note of July 5, as special enquiry was made on this point. The exact weight of the three samples—"Flat piece," "Thick piece," "Powder"—which gave results at the rate of from 800l. to 8700l. per ton, cannot be ascertained but, until the contrary is officially stated, may be assumed to amount together to perhaps a small fraction of one ounce. It would be a protection to the public and would relieve assayers of the charge of connivance with those who send them samples if they in every case stated the weight of the samples received for assay.

The Sleepy Hollow Gold Mine, with a capital of 50,000l., in shares of 1l. each, has been formed to purchase for 25,000l. (12,000l. in cash and the rest in shares), and develope the well-known mine of the same name in Gilpin county, Colorado. The grant comprises 1400 ft. on the run of the lode by 150 ft. wide. The first 590 ft. are held by U.S. patent, and the remaining 810 ft. by recorded warranty deed, so that there is no probability of dispute with regard to title. The mine is situate between the towns of Central and Black Hawk—a district enjoying advantages greatly superior to those of any of the mining sections of the United States, besides being in the very mists of an exceptionally rich gold district. Mines in its immediate vicinity, with not any more ground or greater facilities in any way, are paying annual profits of from 15,000l, to 20,000. The Fiske lode has yielded much value; some say \$50',600, and it is on this vein that the Sleepy Hollow property is situated. Mr. Ernest Le Neve Foster, M.E., whose name is a guarantee for reliability, and who has long been resident in the States, reports that the character of the lode in its general make-up is identical with that of the majority of the most productive mines of the district, and particularly with that of the Fiske. It is a regular and well defined fissure, 2 to 3½ ft. wide, in a

The West African Gold Fields with a capital of 100,0000, in shares of 2ℓ, each, formed to purchase for 55,800ℓ, (22,500ℓ, in cash, and the rest in shares) the lease of a gold property in the Axim district was referred to in the Mining Journal of July 8; the prespectus has now been issued, and will be found in another column, it appears that Mr. Fred. Claudet from a sample of 30s. of Apatim clay obtained at the third of the control of the

foundland have under the Act power to purchase the railway at any time after 35 years, at a valuation, the said railway and property to be then vested in her Majesty, subject to all bonded and other indebtedness of the railway compared at the time of valuation. The estimate of returns and expenses shows that (exclusive of the Government subsidy, which is itself equal to more than two-fifths of the interest on this issue) there will be a good surplus after paying full interest to the bondholders.

Devon Great Consols, 5½ to 6½; shares have been flatter, owing, it is said, to a large number of shares having been thrown on the market, but are likely to advance as these shares become absorbed. The 190 has improved, and the sales of ore are increasing, that on

market, but are likely to advance as these shares become absorbed. The 190 has improved, and the sales of ore are increasing, that on May 18 being 907 tons of ore, which realised 1277%, whilst that on June 22 was 934 tons, realising 1603%, and the sale on Thursday last of 925 tons of copper ore realised 1898%, thus showing a considerable increase on the two previous sales. Devon Great United, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; the erection of rock-boring machinery is being pushed forward. South Devon Copper, 1 to \$1\frac{1}{2}\$, and in demand; the agent reports that the 110 east continues to improve, and some important discoveries are expected in driving this level eastward, which is fast approaching the point where in the level above the lode was valued at 120% to 150% per fathom. The 80 has also improved. Satisfactory progress is being made at Pickstone's and Martin's shafts, and the portable engine is now fixed at the last-named shaft.

bry progress is being made at ricestonies and materials shafts, and the portable engine is now fixed at the last-named shaft.

Drakewalls, \(\frac{3}{6} \) to \(\frac{3}{2} \); the south branches at the deep adit are opening up valuable tribute ground. A sale of tin will be made next week. Cooks Kitchen, \(37\frac{1}{2} \) to \(38\frac{1}{2} \); the balance shown at the meeting of shareholders on Thursday last amounted to \(1649l. \) South Wheal Frances, \(12 \) to \(13 \); and in better demand, the recent accident to the receiving the properties of the pro

Wheal Frances, 12 to 13; and in better demand, the recent accident to the machinery being very slight and quickly remedied. West Wheal Seton shares have advanced to 18½ to 19½, and in good demand, owing to improvements in the bottom of the mine. Kit Hill, ½ to ½; but slow progress is being made, as will be seen by your agent's report, only 3 fms. have been driven during the past week. Gunnislake (Clitters), 2½ to 3; mine opening out well, and the sale of copper ore realised on Thursday 29451.

Frontino and Bolivia, 2½ to 2½; the dividend warrants, 1s. per share, were sent out this (Friday) evening. The meeting on Wednesday passed off, on the whole, satisfactorily, as it ended with a unanimous vote of thanks to the managers and to the Chairman. That an enormous amount of money has been expended on the property was admitted by the Chairman, but he pointed out that this was in fact the mine providing the capital for its development. Messrs. Seal and Sutherland deserve the thanks of the shareholders who take an interest in the concern. That a company with 110,0001. for having demonstrated that there are at least some shareholders who take an interest in the concern. That a company with 110,000*l*. of capital, and which has obtained 319,230*l*. worth of gold from its mines, together \$\frac{1}{2}9,230*l*., should have paid only about 25,000*l*, in eight years as dividends to the shareholders affords reasonable cause for complaints; but it may be assumed that the Chairman has satisfied the opposition that a different system will now be pursued, and that a first repropriet of the working result in future will be dis-

eight years as dividends to the shareholders affords reasonable cause for complaints; but it may be assumed that the Chairman has satisfied the opposition that a different system will now be pursued, and that a fair proportion of the working profit in future will be distributed as dividends. It is cordially hoped that this 400,000.

expenditure has placed the property "in a position of permanent prosperity and stability," and that henceforth the promised profits will be regularly forthcoming. Mr. White states that in 15 months, that is from November, 1883, a profit of 5000? may be hoped for. If regular progress toward this figure be not made no one can complain if the shareholders replace the entire executive in England and at the mines, and seek more efficient officers.

South-East Wynaad, 3 to 3½; the first letter from Mr. Cooper after his arrival at the property has been received. He (June 23) writes:—I was agreeably surprised to find the lode so much improved in the south drift No. 5; it is now 7 ft. wide, full of pyrites. The lode is making well, both in the rise in the back of this level, also in the winze at bottom. We have been obliged to temporarily suspend the latter, the heavy monsoon having caused a great influx of water; I trust it will not be for long. We have crushed about 200 tous with our 12-head battery, and are crushing 12 tons per day. The first 100 tons was very poor stuff, as we wanted to have everything in order before crushing good stone. We clean off the amalgam every day or two. I got back here on Sunday after a very rough and fatiguing journey from Octacamund. We had a break in the monsoon on Monday, Tuesday, and Wednesday, but it has come on again in full force. One good thing it does not hinder us in working underground except in No. 2 winze nor in crushing. It would appear, therefore, says the secretary, that the 130 tons dressed, details of which were published on the 6th inst., might have contained (40,000/L), by a powerful syndicate, which has also provided the necessary working

have come to hand together. Combined they show—ore purchased, 1909 tyns; smelted, 2097 tons, which produced 47,976 ozs. of silver and 353 tons of lead. The value of the fortnight's consignments was 17,0667. A circular issued by Mr. W. Abbott to the shareholders will be found in another column.

be found in another column.

Richmond, 7\frac{3}{2} to 8\frac{1}{2}; the telegrams for the last two weeks show that the fortnight's run was \$\frac{1}{2},000, from 880 tons of ore, with one furnace. During the fortnight the refinery produced doré bars to the value of \$\frac{3}{3},000. The superintendent's weekly report will be found in another column.

Ruby and Dunderberg old shares, 2 to 2\(\frac{1}{2}\), new 1 to 1\(\frac{1}{2}\) premium.

The weekly report advises fair progress in the developments in the Dunderberg Mine. No. 8 ore body, below the 700 ft. level, is still being prospected in various places, but until the main shaft has been sunk and a drift run to come under this ore body it is not available for stoping purposes. The ground in which the shaft is being sunk is at stoping purposes. The ground in which the shaft is being sunk is at present rather hard; the progress, therefore, has not been as great as was expected. The drift in the 300 ft. level, towards the Home Ticket lode, is being continued, and the last account mentions that the indications for ore are more favourable.

Eureka (Nevada) Silver, \(\frac{2}{3} \) to \(\frac{1}{2} \); work in the Bald Eagle Mine this week has been concentrated on the winze from the east cross-cut (150 ft. level) south drift. This has been advanced 15 ft. in low grade ore, interspersed with bunches of good ore. The usual quantity of ore has been stoped from the Williamsburg, and 25 tons are now awaiting shipmont.

of ore has been stoped than the awaiting shipment.

The California Gold Mine Company have received a telegram, dated July 18, which says:—"Machinery started to-day." This, it is explained, refers to the new 109-horse power hoisting machinery fixed over the main shaft, which is down 1300 ft. The reserves of fixed over the main shaft, which is down 1300 ft. The reserves of the mine are very large, and Mr. Rickard estimates those in nxed over the main shaft, which is down 1300 ft. The reserves of ore in the mine are very large, and Mr. Rickard estimates those in sight are equal to four years' supply. The old machinery was insufficient to hoist the produce available, and the works were, therefore, temporarily suspended to allow of the crection of the new plant which has just been completed, and which will work the mine down to a depth of 3000 ft. Now that the mine is in full working order the directors will soon be enabled to announce the resumption of milling. During the time required for the constructions of the machinery the 50 stamps mill has undergone a thorough overhauding.

The Bell Copper Mines, to the formation of which with a capital of 250,0000 in shares of 14, each reference was made in last week's

of 250,000*l*, in shares of 1*l*, each reference was made in last week's Journal, and whose prospectus appears in another column, is understood to have been well received by capitalists, a large number of applications having already come in. It may be mentioned that Mr. A. Brand, for several years manager of copper mines in Newfoundland, is the present manager of the Bell copper mines at Lake Superior, and Messrs. Bainbridge, Seymour, and Rathbone will be the London managers.

Superior, and Messis. Bandridge, Seymour, and Ratholne will be the London managers.

In Lead mine shares there has been very little doing, the price of lead and lead ore remaining very low, although tin and copper occupy a good position. Great Laxer, 17½ to 18½ ex-div. of 6s. per share, payable on Wednesday next. Minera, 8½ to 9½, and enquired for. A correspondent writes that with the present large sales of blands and lead ores he cannot understand how it is that larger divifor. A correspondent writes that with the present large sales or blende and lead ores he cannot understand how it is that larger dividends are not paid regularly every quarter, and suggests that some change should be made in the directorate and management of

Van, 5 to 6; the mine is said to be looking better. Roman Gravels, 8\frac{3}{2} to 9\frac{1}{2}, and in demand. The agents report this week, from their inspection, that they consider the mine to be opening out well. The 80 end south is only now beginning to enter the long rich run of ore ground seen in the 65 above, and so far as this end is opened out it is worth 5 tons of lead ore per fm. Satisfactory progress is being made with the erection of the rock-boring machinery, which will shortly be at work. The sample on Thursday last was 250 tons of lead ore, and 60 tons of blende will be sampled.

Tankerville Great Consols, \(\frac{1}{2}\) to \(\frac{2}{3}\), and enquired for owing, no doubt, to the important improvements and discoveries which have been made during the past week, as will be seen by the agent's report in another column. They have sampled 100 tons of lead ore, for sale next week, and a further quantity will be sampled next month, as well as blende. The usual sampling of blende, the agent states, will be made next week. The shareholders will be glad to notice that the bottom of the Bog Mine will be drained shortly, where it will be remembered there was a very rich lode of lead ore, reported at 3, 4, 5, and up to 6 tons of lead ore per fm. Every effort is being made to approach these points as quickly as possible, as well as to get another level under this rich run of ore ground; when the return of lead would be considerably increased from this part of the property. In the meantime the returns will be gradually increased from the Pennerley, Potter's Pit, and Tankerville Mines. The surface operations, new dressing floor, &c., are being pushed forward as quickly as possible. The rock drills are reported to be working well and doing good duty in laying open a further quantity of ore ground.

Leadhills, 2\(\frac{3}{2}\) to 2\(\frac{1}{4}\), and in demand, owing to the improved prospects of the mine The new machinery is working well at Wilson's shaft.

The Railway Debenture Trust Company (Limited) notify

spects of the mine The new machinery is working well at Wilson's shaft.

The Railway Debenture Trust Company (Limited) notify that the coupons on their Five per Cent. Debentures, due August 1 next, will be paid on and after that date at the banking house of Messrs. Glyn, Mills, Currie, and Co.

The Council of Foreign Bondholders notify that the report of Sir G. Kelner, K.C.S.I., and Mr. G. Bush, recently sent to Costa Rica to enquire into the financial position and the condition of the railways of the republic, is now printed, and copies can be had on application at the office of the council.

Telegraphic advice has been received by the London branch of the Australian Joint-Stock Bank of the declaration at Sydney of a dividend and bonus equal to 12½ per cent. per annum for the half-year ended June 30: 5000%, has been added to the reserve fund, which now stands at 190,00%.

Messrs. C. de Murrieta and Co. announce the numbers of 112 bonds amounting to 29,700%, of the Buenos Ayres Six per Cent. State Loan, 1870, which will be paid off at par on Oct. 2 next.

The British Silver-Lead Mining Company's property has, it is statel, been carefully examined by well-known qualified experts, who state the sett is ve.y extensive, and traversed throughout by misterly lodes, embedied in the most congenial stratification to be met with for producing large quantities of rich silver-lead ore, bearing nearly east and west, with a northerly underlie, which are the true characteristics of productive loles, so that whether densidered from a geological or physical point of view, it is so favourably situated as to leave nothing to be desired.

INDIAN KINGSTON AND SANDHURST GOLD MINING COMPANY. This case came on for hearing in Mr. Justice Kay's Court on Friday, and on application the hearing was ordered to stand over, in consequence of the company being unable to find Mr. Oliver Pegler, whose report on the estate had been impeached. Several strong affidavits have been filed, and we may expect to hear some startling revelations.

have been filed, and we may expect to hear some startling revelations.

TANKERVILLE.—The north lode in the 232 has been cut through, and found to be 8\frac{1}{2} ft. wide, worth 30 cwts. per fathom. The stopes in the 220 are valued at 2\frac{1}{2} tons. At Pennerley the 120 west, on Warm Water lode, is worth 15 cwts., and the 80 west 30 cwts. At Potter's Pit, No. 1 winze is worth 20 cwts., and No. 2 winze 30 cwts. The 105 south is valued at 20 cwts. At Bog, different places are producing lead and blende, and improving. They have sampled 100 tons of lead ore from the three mines, which are altogether looking materially better. materially better.

PRINCE OF WALES SLATE QUARRY, CARNARVONSHIRE.—A report on this property by an experienced quarry manager has just been obtained by the directors, and they have decided to sink a vertical shaft in the slate vein to a depth of 47 yards below the No. 5 floor, and to drive a cross tunnel for 25 yards from the bottom of the shaft; this will give sufficient depth for three floors of 15 yards each. This work has been commenced.

The directors of the Brush Electric Light and Power Company of colland (Limited) have appointed Mr. F. M. Brockelbank as secretary to the

CAPPER PASS AND SON, BRISTOL, ARE BUYERS OF

LEAD ASHES SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c and DROSS or ORES containing COPPER, LEAD AND ANTIMONY.

ROBERT C. FISHER AND SON,

GENERAL, CONSULTING, AND MINING ENGINEERS
SWANSEA,
REPORT ON MINERAL PROPERTIES AND MINES,
ADVISE ON ALL QUESTIONS OF THE WORKING AND MANAGEMENT
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EDGAR JACKSON

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POR SALE.—50 Akankoo, 7s. 6d.; 59 Bratsberg Copper, 28s. 6d.; 50 English-Australian Gold, 7s. 6d.; 100 Exchequer Gold, 2s. 9d.; 50 Gold Coast, 21s. 6d.; 100 Prince of Wales, 6s. 6d. Each

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Address, in the first instance, T. C. Kieto, care of Mining Journal Office, Fleet-street, London, E.C.

THE SLEEPT HOLLOW GOLD MINE, GILPIN COUNTY, COLORADO,

COLORADO,

Has been reported upon by THOMAS RICKARD, Esq. (Messrs. Rickard Bros.), Mining Engineers, Queen Victoria Street, who states:

"I confidently recommend this property as one of the most promising young gold mines in Glipin County, and as one which, with very moderate outlay and in a very short time, promises an excellent result."

E. Le NEVE FOSTER, Esq., M.E., who writes:

"In conclusion, I can state that from the general character of the lode, its resemblance to the Fiske and its undoubtedly being an extension of that valuable lode, together with the locality in which it is situated, render it, in my opinion, a valuable piece of property and, one which, with the expenditure of a small working capital in a judicious development and with economical management, may hereafter be expected to make its mark in Glipin County."

Mr. PHILIP MILFORD, Birmingham, who has been selected as Resident Manager by the Directors, and who states:

"In looking over Mr. Foster's report I notice he charges all expenses against the mill ore, leaving 38 profit per fathom from that alone and, leaving all the smelting ores, of which their is a large percentage, and estimated at \$70 per ton, as additional profit. On the basis of his estimate, and assuming that only 7 fms. a day are extracted, equal to 23 tons of mill dirt, the proportion of smelting ore would be, according to past record, 4 tons, I make the following calculation of expected results:—7 fms. of mill dirt, at \$8, \$56; 4 tons of smelting ore, at \$70, \$220; daily profit, \$336. Yearly profit on a working of 300 days \$100,800, or £20,160."

THE SLEEPY HOLLOW GOLD MINE

(LIMITED).

Incorporated under the Companies Acts, 1862 to 1881. CAPITAL £50,000, IN 50,000 SHARES OF £1 EACH

Of which are reserved for vendors, 13,000 Shartes Of 21 EACH.

Of which are reserved for vendors, 13,000 Shares; and subscriptions are invited for 22,000 Shares; total on which dividends are to be earned, £35,000.

On the issue of 22,000 Shares of £1 each, payments are to be made as follows:—2s. on application; 3s. on allotment; 5s. one month after allotment; the balance in calls not exceeding 5s., with not less than one month's notice.

W. MOLESWORTH ST. AUBYN, Esq., M.P., Brick Court, Temple, Director of the Safety Blasting Powder Company (Limited). EDWARD PALMER, Esq., Director The Howe Machine Company (Limited); East Hony Mining Company (Limited). J

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Solicitors - Messrs. SNELL, SON, and GREENIP, 1, George-street,

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Full Prospectuses and Forms of Application for Shares can be obtained at the Bankers, the Solicitors, and at the Offices of the Company.

REPORTS ON THE SLEEPY HOLLOW GOLD MINE, GILPIN COUNTY, COLORADO, U.S.A. THOMAS RICKARD, Esq., M.E.

COLORADO, U.S.A.

THOMAS RICKARD, Esq., M.E.

Mesers. Pearce, Sands, and Foster, who have preceded me in the examination of this mine, have so minutely described it that I may omit a good deal of the technical details otherwise necessary. The concessions or locations of this property cover a length of 1400 ft. of lode; for 550 ft. there is a United States patent, or absolute definite grant, and for the rest there is the usual recorded location and discovery certificate to be followed by the patent. The mine is placed in communication with the smelling works by a railway (Colorado Central), which runs hard by, and with stamping mills by a good carriage road. Being in Gilpin county, and quite near the Gregory, the Bobtail, and the Fiske, the position is unquestionably lmost desirable. These mines have all been, and still are, rich producers, and they are developing rich at great depths. The Sicepy Hollow Mine is on the same lode as the Fiske; indeed, it is fairly described as the castern extension of this rich mine. The mine workings are simple, being one shaft sunk 375 ft., from which at different levels the 125th, the 135th, the 350th, and the 375th horizontal drifts have been extended to langths varying from 20 to 70 ft. This is the work of tributers by whom the mine has been held on lease. The character of the lode in its general make-up is identical with that of the Fiske. It is a regular and well-defined fasure, 2 to 3½ ft. wide, in a gnelss formation, the almost horizontal benches of which it cuts with an angle, deviating only a few degrees from the vertical. The "paysteak" or ore leader of the lode is quartz, with iron pyrites impregnations containing gold and a subordinate quantity of sitver.

The lode, regular and more or less orey from the outcrop, first showed ore in paying quantity at 250 ft. from the surface; and the section and the record of the mine show that from that depth to the present bottom the proportion of good stope ground has been large and increasing. The average grade of the ore is als

point of quality of the ore and the cost of mining and carriage the conditions of this mine are favourable, for while the great mines of the place make their profits from stuff yielding \$15 a ton (the average free-milling and smelting ores together) and at a cost of \$5 to \$3, the Sleepy Hollow has shown an average of nearly \$20 a ton.

The Sleepy Hollow is unquestionably a piece of ground possessing excellent capabilities. What is required to make it what the Fiske is, and to all appearances as profitable as the best mines of the same locality, is, that adopting a complete plan of working and rescuing the mine from the unsatisfactory and, I may say, destructive leasing system it be opened out fairly and in a miner-like way; and the present altogether inadequate horse appliances be replaced by suitable (25 horse-power) steam hoist with cage, and cars to which the shaft, with slight alterations, is suitable.

The shaft should be sunk without intermission to a depth of from \$600, or better still \$500 ft, from the surface. It is fabout the 500th and 500th levels in the mines of this locality where the richest ground has been met with. The ground is "easy," and, with suitable hoist proposed, sinking to the 500 ft. level is the work of about a year. Judging from the facts respecting the locality, nature of the lode, the records of the mine, &c., this, with the necessary drifting work, can hardly fail to result in great discoveries. As stated by those who have preceded me, £4000 to £500 will be found to be sufficient capital to carry out the proposed developments. £1000 would about provide for the hoist, cage and cars, and the preparatory work in and about the shafts, sheds, &c.; and the £35 ft, of shaft and the accessories in drills, &c., would be amply provided for by the balance. No water is to be expected, for the Fiske, now at \$900 ft., is practically a dry mine. I confidently recommend this property as one of the most promising young gold mines of Glipin County, and as one which, with very moderate outlay and in

THOMAS RICKARD (Rickard Bros.), 35, Queen Victoria-street, E.C.
London, Dec. 16, 1861.

ERNEST LE NEVE FOSTER, ESQ., M.E.

The property known by this name is situated in Gregory Mining District, Gilpin County, Colorado, a short distance above the town of Black Hawk. The district is an old and well known locality, and noted for its large yield of gold. The Sleepy Hollow lode is in the immediate vicinity of, and nearly parallel with, the well-known Bobtail lode, which has for many years past been worked to a great profit, and is now upwards of 900 ft, deep, the best and largest bodies of ore being found at that depth. The Sleepy Hollow is, without doubt, the easterly extension of the Fiske lode, which at different times has produced very largely and been worked very profitably. The two properties adjoin, there being only about 150 ft. of ground from the Sleepy Hollow shaft to the boundary of the Fiske. The Sleepy Hollow has always been worked to a great disadvantage, as no power other than horse has been employed, and the shaft has now reached a depth that makes it too expensive to slink it further by this means, and, before the mine can be worked extensively, steam power will have to be employed. There is no doubt that this lode is a true fissure vein, as it is enclosed between gnelssic and mica schist rocks, the stratification of which is nearly horizontal. The developments upon the property consist of the main shaft, sunk to a depth of about 200 to 325 ft., a drift driven east from the bottom about 100 ft., the back of which is stoped out nearly 60 ft. high. There is also, at a depth of about 275 ft., a level driven west about 40 ft., in the back of which rockaping has been done. There is good ore in all the lower workings—that is to say, from a depth of about 250 ft. to the bottom, and everything scene to indicate that, as greater depth is attained the ore body will become more regular and solid. The ore consists of a quartz vein impregnated with auriferous iron pyrites, copper pyrites, and since the milling

wide it will yield about 3-5tbs of a cord of mill dirt per fathom, which, at an average yield of 5 css. the cord, would contain 3 css. of gold, worth about \$16 per cs, or altogether \$45.

The cost of extraction of a fathom of ground I estimate as follows:—

Btoping I fm. \$15.00

Hoisting to surface and tramming \$1.00

Handling ore at surface, &c. \$5.00

Hauling ore to mill \$3.00

Milling at \$15 per cord \$9.00

Proportion of dead work, drifting, and shafting \$4.00

Sundry expenses \$3.00 Proportion of dea Sundry expenses

Georgetown, Colorado.
Mr. PHILIP MILFORD.

Georgetown, Colorado.

Mr. PHILIP MILFORD.

48, Priestley-road, Birmingham, June 1, 1882.

In pursuance of your request I submit as follows:—I have estimated that the following sums are amply sufficient to develope Sleepy Hollow Mine and make it profitable to all concerned:—For portable engine and boiler, sufficient to work 700 ft. deep, 2424.; for grading and building slathouse, 1504.; for holsting gear, rope, buckets, belting, and tools, 2604.; sinking shaft 300 ft., at \$12 per foot, 7204.; drifting four levels (say 200 ft. each), at \$7, 11204.; total, 24904. As the shaft is sunk right on the veln, we should be taking out ore all the time this development is going on. In proof of this assertion I may call your attention to the fact that rich ore is in all the lower workings, and the lost ore, taken from the bottom of the shaft, and milled at Bostwick mill, yielded 7 ozs. 15 dwts. of gold per cord, or 7 tons, which is far above the average run. I believe the ore taken out whilst the mine is being opened up as above would pay for all contingencies top work, &c. With the shaft deepened 300 ft. and levels driven, I believe I am perfectly safe in axying we could turn out four cords, or 25 tons, of mill ore per day, which, judging by experience of the mine up to the present, would yield 21 ozs. of gold, value 534. In addition to this, past experience also proves that the proportion of smelting ore, as compared with the mill ore, is over 1 ton of smelting ore to one cord, or 7 tons, of mill ore; and the value of the smelting ore is on an average 14t, per ton, or 56t. daily from the smelting ore. Add the office of the smelting ore and we have a daily output of 195, per day. The expense of stoping, holsting, hauling to the mill, and milling the above quantity of ore in the in Glipin county would not exceed 36t, which would leave a daily profit of 83t. This could be increased in proportion to the further extension of the workings. One of the great advantages of the Sleepy Hollow Mine is that it is entirely free from wa

the owners of the Fiske took out bullon to the amount of nearly half-a-million dollars.

In looking over Mr. Foster's report on this Sleepy Hollow Mine, I notice he charges all expenses against the mill ore, leaving \$8 per fathom profit from that alone, and leaving all the smelting ore (of which there is a large percentage, and estimated at \$70 per ton) as additional profit.

On the basis of his estimate, and assuming that only 7 fms. a day are extracted, equal to 28 tons of mill dirt, the proportion of smelting ore would be, according to the past record, 4 tons, I make the following calculation of expected results:—7 fms. of mill dirt, after deducting all expenses, at \$8, \$56; 4 tons of smelting ore, at \$70, \$230; daily profit, \$336.

Yearly profit on a working of 300 days, \$100,800, or £20,180.

Mr. R. H. Lewis.

Motices to Correspondents

TELEGRAPH ENGINEERS—"J. A. B." (New Bridge-street)—The report of the visit of the Society of Telegraph Engineers and Electricians to Chatham was in type for last week's Journal, but accidentally omitted; it will be found in another

New West Caradon—"W. M."—The purser is Mr. John Watson, and the address Gracechurch-street Buildings.

**Received,—"W. C. K."—"A.P."—"C. C. B." (Birmingham)—"W. T." (Schull)—"Novice "—"G. H." (Richmond) should write to the parties he names, and endeavour to procure some information—"J. R. H." (Oblathe)—"Shareholder" (West Pateley Bridge)—"Bhareholder" (Richmond)—"T.E.G."—"J. H. J."—"T.A.R."—"One Interested" (Bangor): All the Information we receive is published in the Journal.

THE MINING JOURNAL.

Bailway and Commercial Gazette.

LONDON, JULY 22, 1882.

THE ECONOMY OF FUEL IN THE PRODUCTION OF IRON

In looking back even for a few years one is surprised at the great In looking back even for a few years one is surprised at the great economy which has taken place in the consumption of fuel in the production of both iron and steel. The great waste which at one time took place without any attempt to diminish it was something surprising, but as the price of coal increased ironmasters began to direct their attention to the best means of reducing the expenditure to a minimum. Indeed, the smelting of iron presents the most remarkable illustration of the extent to which fuel is now economised as compared with former times. According to Mr. MUSHET, at the Clyde Ironworks in 1796 no less than 9 tons 10 cwts. 24 lbs. of coal were consumed for the production of 1 ton of piz-iron, and 30 years Clyde Ironworks in 1796 no less than 9 tons 10 cwts. 24 lbs. of coal were consumed for the production of 1 ton of pig-iron, and 30 years later on it had only fallen to 8 tons 1 cwt. Since then, however, the reduction has been of a marked character, whilst there is still room for more being done in lessening the consumption of fuel in the blast furnace. The Cleveland ironmakers have undoubtedly been the foremost in trying various methods for diminishing the quantity of fuel in the production of pig, for whilst in 1864 the quantity used in making a ton of iron was fully 70 cwts., now it only averages about 42 cwts. Still, a great deal depends upon the quality of the ironstone smelted, for the higher the metallic richness the less fuel required. As regards the hematites of Cumber. ness the less fuel required. As regards the hematites of Cumberland and Lancashire, there being a high percentage of metal, the coal or coke required is, of course, much less than with respect to the ordinary ore peculiar to the coal measures or that obtained from the colites. So far back as 1866 in Cumberland 32 cwts. of coke was the average for making 1 ton of pig, but now the same object is attained with about 24 cwts. In a great measure this is due to the improvements that have been made in the furnaces and the utilisation of the gases by means of close-topped furnaces. But it may also be said that a good deal depends upon the description of coal that is used, but in some instances this is not taken into conless fuel required. As regards the hematites of coal that is used, but in some instances this is not taken into co coal that is used, but in some instances this is not taken into consideration by some of the iron-makers. In South Wales, for instance, where there is good smelting coal and the stone may be taken as giving at least an average of 30 per cent., the consumption of fuel is equal to 42 cwts. per ton of pig, whilst in Durham and Northumberland, where the ironstone is scarcely so good, and the coal by no means superior, the fuel used is not more than 48 cwts. In connection with the stone that is residentified never from care. coal by no means superior, the fuel used is not more than as owns. In connection with the stone that is raised entirely away from any coal field, such as that worked in Northamptonshire and Lincolnshire, no progress of any consequence has been made of late years in reducing the quantity of coal in the making of pig-iron. This is all the more singular, too, seeing that there is a considerable charge all the more singular, too, seeing that there is a considerable charge for taking the coal by railway to the furnaces. In fact, so far as

Northamptonshire is concerned, more coal has been used per ton of play of late than was the case 5 or 6 years ago, although it has to be taken a distance of 50 or 60 yards, so that if economy was to be practised at any place one would think it would be in that county. The ore are raised in the colites, and are much richer than those of Cleve. land, some of them giving as much as 40 per cent. of metallic iron yet they cannot be smelted with less than 50 cwts. of coal to the too of pig. A great deal-of the iron made in Derbyshire is from the Northamptonshire stone yet in that county about the same quantity of coal is used, but as coke is now being imported into it from South Yorkshire we believe that not so much coal will now be re-

Northamptonshire stone yet in that county about the same quantily of coal is used, but as coke is now being imported into it from south Yorkshire we believe that not so much coal will now be required.

One of the oldest iron districts in Englard is Coalbrookdale, is Shropshire, where the coal field is nearly exhausted, and here singular to say, the consumption of fuel is about the highest known in the manufacture of iron, being more than 50 cwts. to the tos, although its growing scarcity one would think would cause it to be carefully nursed, but many of the furnaces are of an old type, whils the coal itself is not particularly good. More attention, however, has been paid to the economising of fuel in the making of iron in Lincold, while the coal itself is not particularly good. More attention, however, has been praid to the economising of fuel in the making of iron in Lincold, which is the coal itself is not particularly good. More attention, however, has been greatly in the making of a ton of iron was 24 cwts., and sometimes even less than that; but now most of the coke used is that from South Yorkshire, and the quantity required in the about 30 cwts., but as the quality of the fuel from the district named has been greatly improved of late, a less quantity is now required. But the ironmasters of that district are now considering the desirability of having close-topped furnaces, which they consider are both theoretically and practically the best as regards the utilizing of the gases and the consequent economising of the fuel required for smelting. Of late years the coal consumed in North and South Staffordshire in the making of iron has not undergone much change, ranging from 39 cwts. for the best qualities of stone to 45 cwts. for the inferior descriptions. But a change is now likely to take place with regard to the production of iron by the direct process, which is about to be introduced in the county. Lancashire appearance and greatly and practically the production of iron, the stone being great deal of coke represent a reduction of 4,607,500 tons or coal. Mr. JEANS, the secretary of the Iron and Steel Institute, also states on the authority of a gentleman well qualified to give an opinion, that the difference at the present time between the average consumption of coke in a furnace working the Cleveland ore and a furnace using hematite ore will not be less than 5 cwts, while Mr. BELL has calculated that if 22 cwts, of coke be assumed to represent the consumption of coke per ton of No. 3 Cleveland iron, the quantity of coke consumed in smelting the same quantity of metal on the West Cumberland coast should not exceed 18 cwts. However, the practical limit of the economy of fuel in the manufacture of iron has by no means yet been reached, but will be found to go on by increased temperature of the lining and the pressure of the blast. The direct process we believe will also be the great economy in having the steel produced by one operation. We are evidently on the ove of great changes, all of them going in the direction of lessening our requirements of coal, and so keeping our reserves of the fossil fuel to a much much longer period than many of our ablest geologists and scientists have estimated. Our consumption of coal has been increasing at an astonishing rate during the last two or three years, but we believe the time will shortly arrive when the tide will turn and the demand cease to increase by switches and consumption of coal has been increasing at an astonishing rate during the last two or three years, but we believe the time will shortly arrive when the tide will turn and the demand cease to increase by ing the last two or three years, but we believe the time will shortly arrive when the tide will turn and the demand cease to increase by existing and new discoveries and economising appliances.

MINERS' PERMANENT RELIEF FUNDS.

THE HARTLEY AND OAKS SURPLUSSES.

It is admitted that the establishment of miners' permanent relief funds in different parts of the kingdom has been the means of effecting a vast amount of good—placing the workmen, by means of a small weekly subscription, in a position by which they are independent of public or parochial aid when unable to follow their employment, and, in the event of their deaths, securing a provision for their families. The mineowners are also liberal contributors to these funds, in which they take a great interest, so that the combination of masters and workmen, so far, has been successful in raising funds to meet the many demands that are made upon them by the aged, the sick, injured, and the families of those who die from natural causes, or who are killed whilst following their ordinary employment—at all times a dangerous one. It was thought that the carrying out of the Employers' Liability Act would seriously affect the position of the permanent relief funds; but, so far from this being the case, as was stated a few days ago by the Earl of CRAWFOED and BALCARREES, on the occasion of the fourth annual conference of the Central Association for dealing with distress caused by mining accidents, and of which he was the Chairman, the good feeling between employers and employed was never on a more satisfactory footing than it is at the present time. When it is considered that upwards of 1000 lives are annually sacrificed in the raising of coal in the kingdom, the necessity for relief funds requires no advocacy, and it is gratifying to find that the advantages of them are fully recognised by the men, as shown by the large numbers who are connected with them, and the rapid increase which is constantly going onnected with them, and the rapid increase which is constantly going on nected with them, and the rapid increase which is constantly going on nected with them, and the rapid increase which is constantly going on nected with them. It is admitted that the establishment of miners' permanent relief cognised by the men, as shown by the large numbers who are connected with them, and the rapid increase which is constantly going on so that, at the present time there are two-thirds, at least, of the coal miners who subscribe to them weekly. These payments, as a rule, are supplemented by a percentage on the part of the employers, by which means a large yearly income is ensured. But it has been considered that there has the discrete them sold the state of the description. sidered that there is a third party that might well be called upon who are benefited, or may be, by them. These are the lessors of royalty owners, who derive large revenues without running any risk whatever, and in this respect differ very much from the lessees. The Durham Association has 1300 aged persons on its books, who receive 3s, a week each, and at the annual meeting, held last week, a let of an extra halfrency per week was made, as a to increase the as, a week each, and at the annual meeting, held last week, a ley of an extra halfpenny per week was made, so as to increase the amount to 4s.; and at the same time it was also agreed that an appeal should be made to the royalty owners for annual subscriptions to the fund. Should this be carried ont, as no doubt it will we believe it will be most liberally responded to, and thus an example will be set to the mineral lessees in all parts of the kingdom, and one which they will not be slow in following, and that most liberally. These continuous was made, received to extra results. liberally. These gentlemen who merely receive the rents or royal-ties run no risks as regards accidents, have no capital to put down-but they receive certain sums which have to be earned by the

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miners, who in doing so are often seriously injured, whilst upwards of 1000 of them are annually killed whilst so employed. Under such circumstances the lessers, we feel sure, would willingly give a trifling percentage of the money thus obtained, and which is only raised by means of a heavy list of killed and wounded. If only one farthing per ton was returned on all coal paid rent for and raised in the United Kingdom there would be an annual revenue from the royalty owners of no less than 156,000l., and this would give 5s. a week to 12,000 persons, so that, with the added contributions of the masters and the working miners, an ample provision would be made for every man, woman, and child connected with the great coal mining industry of Great Britain, under any and every contingency. And we do not think it would be asking too much for the lessors of coal mines, whose revenues are obtained at such a yearly loss of lives, that they should subscribe in something like the proportion we have pointed out. We shall therefore look forward, most certainly with a good deal of interest, to the appeal about to be made to the mineral owners of Durham and Northumberland in aid of the Miners' Permanent Relief Fund, having every confidence that such appeal will be most liberally responded to, and so show a worthy example to all other mining districts.

Another and most important subject was brought forward at the meeting at Durham, and which should not be overlooked—that was

Miners Fernmann Reiner Fund. Invining appeal will be most liberally responded to, and so show a worthy example to all other mining districts.

Another and most important subject was brought forward at the meeting at Durham, and which should not be overlooked—that was the disposal of the surplus funds raised from the public on the occasion of great colliery disasters. It was stated that there will be a surplus of 28,000l. from the Hartley Fund, after making every provision on a liberal scale for the liabilities. A few years ago some thousands of pounds not required by the committee was sent into other districts, and it is said a similar distribution is about to be made. Several of the delegates at the meeting at Durham considered that the greater part of the surplus should be given to their association, seeing that the money was subscribed principally in the counties of Durham and Northumberland. But the secretary promptly pointed out that this was not the case, seeing that subscriptions were sent from all parts of the kingdom, the Continent, America, and even India. He also stated that it had been decided by those who had the management of the fund to distribute the surplus amongst the districts to which the first portion was sent, and these include the West Riding and Lancashire. But in connection with surplusses there is a sum of from 15,000l. to 20,000l. that will be left after all the liabilities on the Oaks fund are met; and there is no reason why this money should not be handed over to those associations—or an association—whose province it is to provide for the miner and his family in the event of sickness or death. The Barnsley committee, who have the custody of the money, we certainly think should be called upon to state what they purpose doing with the large surplus which they have in hand, and they might be induced to follow the example of the Hartley committee, and they could not do better, perhaps, than give it to the West Riding Permanent Fund, which has done a good deal of good during the few year

THE DEVELOPMENT OF IRELAND.

Some three or four weeks ago we directed public attention to the importance of the development of Ireland by means of opening up and working its vast and valuable mineral resources and extending its railways. We proved from facts and figures which we quoted, not only that there is a profitable field for the legitimate outlay of capital, but contended that the permanent employment which would be afforded by the working of the mines and the construction of railways would be the means of conducing far more to the peace and stability of the people than all the mere political nostrums which the present Liberal or any other Government could launch. The postulate is a safe one which asserts that an idle population is a dangerous population, and that an industrious people is a peaceful people. Unfortunately those who know Ireland best are bound to admit that its lower strata are not the most industrious. For this they are to be quite as much pitied as blamed. The rich agricultural lands which once supported comparatively few wealthy landlords have been by degrees out up into small tenements, and with its miserable humade to support large families. This wretched system of so-called farming has gone on for generations, and has now taken such a firm hold of the people that penury and idleness are everywhere observable. As a natural result orime in its various phases reigns in many parts of the country. The wealthy landowners have for the most part entirely neglected their best interests and ignored their duties. Whilst giving due attention to the cultivation of the soil, they would (if they had been wise in their day and generation) have seen that they would be promoting their own material interests and the prosperity of the whole kingdom by supplementing the agricultural interest by the opening up and working of the far more precious mineral deposits which everywhere lie in their midst. And once it became evident that Ireland has really determined to help herself—to work out her own redemption—English capital and English Some three or four weeks ago we directed public attention to the

to work out her own redemption—English capital and English enterprise would have come to the front, and national prosperity would have been the result.

It is satisfactory to find that our remarks have not been altogether disregarded, but have been endorsed by those who are most conversant with the various aspects of the question. We are more than ever convinced that the regeneration of Ireland, as a nation, depends upon finding permanent and remunerative employment for its people. Everything short of this touches only the mere fringe of the subject. The ulcer of idleness and indifference is rapidly eating out the energies and vitals of the nation. This ulcer must be removed, and by no more efficacious way, can it be accomplished, than by providing work, and, as a sequence, comfort and prosperity for its toeming thousands. Emigration has been suggested as the panacea for all "the ills the Irish flesh is heir to;" but this, good as far as it goes, will but modify the evils, not remove them. And why should the bone and muscle and strength of the people be driven from their fatherland if profitable work could be found at their own threshold? That the opening up and working of its various mineral deposits, the extension of its railways, the multiplication of its manufactures, and the erection of works of public utility, would afford much remunerative employ for the people no one can question. Thousands of acres of the richest mineral deposits lie Cormant for want of British enterprise and British capital, and it is a sad reflection upon our wealthy capitalists that, whilst they specurate their tens of thousands upon questionable schemes and projects in foreign lands, they neglect much more legitimate and profitable fields of enterprise in the Sister Isle. Government, too, would find that any amount of capital expended in the promotion and construction of works of public utility would not only be a safer investment, but would encourage private capitalists to follow in the same direction. It would thus be a powerful

we infinity believe that the dawn of a brighter day for Archaeles at hand. The Government are honestly endeavouring to grapple with the difficulties of pacifying Ireland; and although we firmly elieve that the providing of permanent and remunerative work for he masses of the people lies at the very root of the matter, still the neasures which have recently received Parliamentary sanction will produce good results. pressures which have recently received Parliamentary sanction will and others against the Richmond Company was tried, and it was all received parliamentary sanction will and reduce good results. English capitalists are also gradually turning their attention to the depelopment of Irish mines, and the manufacturing industries enerally are reviving. As a proof that the material interests of reland are still engaging the earnest attention of the Government, is satisfactory to find that on Monday last the Select Committee of the House of Commons on Railway Rates and Fares came to the nanimous decision to recommend that with a view to greater conomy and efficiency of working, that the whole of the Irish railways should be amalgamated and placed under a board of 18 directors, with one secretary and one general manager. They also resolved unanimously to recommend that the classification of goods bound that the classification is at present less liberal on Irish than a English railways, especially as to agricultural produce and impared with through traffic between stations in England and received Parliamentary sanction will roduce good results. English capitalists are also gradually turning their attention to the depelopment of Irish mines, and the making of Irish lines of railway, and the manufacturing industries enerally are reviving. As a proof that the material interests of reland are still engaging the earnest attention of the Government, is satisfactory to find that on Monday last the Select Committee of the House of Commons on Railway Rates and Fares came to the

stations in Ireland, to the great injury of the large wholesale houses. This decision of this Select Committee is unquestionably a move in the right direction, and we see in it a germ of that expansion of railway enterprise which is so essential for the growth and prosperity of the country. Railway communication will lead to the working of minerals which now lie dormant for want of such communication and when once the attention of English capitalists is munication, and when once the attention of English capitalists is directed to this wide, and, as we believe, profitable field of enterprise, renewed life and vitality and prosperity will follow. It is one of the proper functions of the Press to endeavour to enhance the material welfare of the people, and being convinced that the true regeneration of the Irish people as a nation is to be found in providing permanent and remunerative, work by means of its mines. providing permanent and remunerative work by means of its mines and railways, we make no apology to our readers for again alluding to so important a question.

THE WORLD'S COAL PRODUCTION.

A very painstaking French statist, M. PAUL TRASENSTER, has been laborated preferred assessed dry fact. The transferrer, has been laborated to compiling a mass of statistics in illustration of the progress of the world's coal production. Whether the figures which M. TRASENSTER has thus brought together are completely reliable, or whether they must be regarded in the light of an approximation only to the actual facts of the case, there can be no doubt that M. TRASENSTER is correct in his final conclusion that the extraction of mineral compussible has improsely increased drying the last 20 years. TRASENSTER is correct in his final conclusion that the extraction of mineral combustible has immensely increased during the last 20 years. In 1860 the production of coal throughout the world—or, at any rate, in the various countries in which coal is mined to any appreciable extent—amounted to 134,300,000 tons. In 1870 the corresponding extraction had been carried to 212,000,000 tons. In 1880 there had been an advance to 331,100,000 tons. It will be seen that while the increase in the production, comparing 1870 with 1880, was 77,700,000 tons, the corresponding increase in the production, comparing 1880 with 1870, was 119,100,000 tons. But the increase did not stop even here, for according to M. TRAENSER, the production was carried. here, for, according to M. TRASENSTER, the production was carried in 1881 to 351,000,000 tons. It should be remarked that the data of M. TRASENSTER are confined to Great Britain, the United States, M. Trasenster are confined to Great Britain, the United States, Germany, France, Belgium, and the Austro-Hungarian Empire, M. Trasenster apparently not considering the other minor coal producing countries of the world as scarcely worthy attention. At the same time we cannot lose sight of the fact that coal is also raised in Nova Scotia, in New Zealand, in Borneo, in British India, in Spain, in Russia, in New South Wales, and at several other points; and speaking roughly we should imagine that the combined annual extraction of these various countries cannot be less than from 5,000,000 to 10,000,000 tons, so that we may accordingly estimate the aggregate production of coal throughout the world last year at about 360,000,000 tons. To return to the extraction of Great Britain, the United States, France, Belgium, and the Austro-Hungarian Empire, it may be interesting to contrast more closely the production of 1880 it may be interesting to contrast more closely the production of 1880 with that of 1860. According to M. TRASKNSTER the increase in the production of Great Britain during the 20 years was 63,900,000 tons. The increase in the production of the United States in the same period was 55,100,000 tons; and the increase in the production of Germany was 46,900,000 tons. France increased her coal production during the 90 years to the extent of 11,100,000 tons and Balgian during the 20 years to the extent of 11,100,000 tons, and Belgium raised 7,000,000 tons more coal in 1880 than in 1860. The growth of the coal extraction of the Austro-Hungarian Empire during of the coal extraction of the Austro-Hungarian Empire during the 20 years would appear to have been 12,500,000 tons. It will be seen that coal mining made more progress during the 20 years in Great Britain than in any other country, although the United States certainly pressed this country rather hard, while last year the coal extraction of the Great Republic is considered to have further expanded to the extent of no less than 10,000,000 tons. Great Britain has still a long lead in the matter of her coal production; and, however, great may be the efforts of the United States to develope their great mineral wealth some years will clearly elapse before they attain the first rank among nations in respect of their coal extraction. The increase in the production of coal in Germany has also been very considerable, and would seem to indicate that Germany is likely to become a much more important industrial country than she has hitherto been. France advances in her coal production but in a likely to become a much more important industrial country than she has hitherto been. France advances in her coal production but in a very festina leate fashion, the French, as a people, not being very fond of mining pursuits. Belgium has certainly increased her coal production to some extent during the last 20 years; but the area of this industrious little country being after all extremely limited the extraction of Belgian coal cannot be expected to advance with the same rapidity as in more important countries, such as France or Germany. The Austro-Hungarian Empire has rather more than kept pace with France in respect of her coal extraction since 1860, and with a further extension of the Austro-Hungarian railway system, and an adherence to a peaceful policy on the part of the Austroand with a futther extension of the Austro-Hungarian railway system, and an adherence to a peaceful policy on the part of the Austro-Hungarian Government, it is possible that the production of coal from the soil of Austria and Hungary will continue to still further increase. After all, it is the progress of the demand for coal which is the great cause of the growth of its production.

RICHMOND CONSOLIDATED MINING COMPANY.

The precise position of the dispute between the Richmond and the Albion Companies in Nevada has been but imperfectly understood by most people in this country; but an elucidation of the matter has been published in the Daily Exchange of San Francisco, with a copy of which a correspondent has favoured us. The decision of the Supreme Court of Nevada is adverse to the Richmond, but the detailed statement of the case by ex-Senator Stewart can leave no doubt in the mind of any investigli reader that in the leave no doubt in the mind of any impartial reader that in the Supreme Court of the United States—the Court of Final Appeal—that decision will be reversed, and a decree in favour of the Richmond Company will be the result. The mine in controversy, according to Senator Stewart's explanation, was mineral land of the public domain. The statutes of the United States provide that a locator proposed lands may preque a patent by complying with the local ing to Senator Stewart's explanation, was natural and of the dodomain. The statutes of the United States provide that a locator upon such lands may procure a patent by complying with the local laws and Acts of Congress. The United States statutes also provide that any person having an adverse claim must present the same during the period of publication of the notice of the application for patent, which must be published for a period of 60 days, and that all claims that are not presented during that period are waived. The statute further provides that when a protest is filed, the protestant, to preserve his rights, shall bring suit within 30 days thereafter, to determine the right of possession in a court of competent jurisdiction, and that after the Court has decided which of the two parties—the applicant or the protestant—is entitled to the mine, parties—the applicant or the protestant—is entitled to the mine, the Commissioner of the General Land Office shall issue a patent to the successful party in that action. The Richmond Company made an application for a patent to the ground in controversy. Rose and others, the grantors of the Albion Consolidated Company, protested and brought suit. No other claimant did the same, and, therefore, after the time for protesting and bringing suit had expired, all other adverse claims were waived, so that there can be no other title brought into the controversy. The suit of Rose and others against the Richmond Company was tried, and it was finally decided by the Supreme Court of Nevada that Rose and

application was opposed by the Albion Company (represented by Rose and Co.) but failed; hence the United States patent was granted to the Richmond Company. It has always been represented to British capitalists that the United States patent gives an indefeasible title, and should the United States Supreme Court confirm the Nevadan decision this representation would be proved to be false. Senator Stewart correctly affirms that "the Government of the United States like one winter individual." the Nevadan decision this representation would be proved to be false. Senator Stewart correctly affirms that "the Government of the United States, like any private individual, can only sell its land once," and as between the Government and the patentee the sale is only provisional until the United States patent is issued; so the issue of the said patent concludes the transaction, and deprives the United States Government of the property so long as the conditions of the patent are complied with. To suppose that the United States Government would grant, after opposition and trial, a patent to the Richmond Company and subsequently confiscate it and regrant to another would indeed be selling its land more than once, and would, therefore, be against all sound principles of law or justice. It is rumoured that an effort will be made to take advantage of the delay which must necessarily occur before the final appeal can be heard to place the majority of the shares of the Albion amongst British capitalists, but it must be obvious that to buy shares in a mine, the patent for which has been granted, and is still held by other parties, would be hazardous in the highest degree. The present case is of paramount interest to all concerned in American mines, since the decision will determine whether the United States patent does or does not give an indefeasible title to the property or which it relates and thus enable the parties to decide for thempatent does or does not give an indefeasible title to the property to which it relates, and thus enable the parties to decide for themselves whether the American law gives them that amount of protection which capitalists are entitled to expect.

PHENIX ELECTRIC LIGHT AND POWER COMPANY.

PHCNIX ELECTRIC LIGHT AND POWER COMPANY.

A public demonstration of two new lamps about to be acquired by this company was given at Collinge's works, Westminster Bridgeroad on Tuesday evening, and was attended by a large number of persons. The current was supplied from a small Gramme machine driven by a semi-portable engine of 6-horse power nominal, running about 145 revolutions per minute with rather more than 40 lbs. pressure of steam. The incandescent lamps, the invention of Mr. Desmond G. Fitzgerald, were first shown and were generally admired. The vacuum globe is larger and more elongated than usual, and the carbon, which is of paper, is of considerably greater length, but the essential feature of the lamp and that upon which its superiority depends is the introduction of a magnesium connecting piece between the conducting wires and the ends of the carbon, the object being to remove the last trace of oxygen within the vacuum tube. Four of these lamps were arranged in the office of the works, and the result was a very brilliant illumination. The experiments being of a purely popular character, no photometrical apparatus was provided, by which the exact candle power of one or more of the lamps could be ascertained; but, judging by the eye, the Fitzgerald lamp is fully equal in illuminating power to any in the market, whilst the great advantage claimed for it is that the adoption of the magnesium connection so greatly augments the durability of the carbon that every lamp is absolutely reliable for considerably over magnesium connection so greatly augments the durability of the carbon that every lamp is absolutely reliable for considerably over 1000 hours. As Mr. Desmond Fitzgerald is already well known as an electrician confidence may be felt in the practical value of his

lamp.
The arc lamp shown the same evening is the invention of Mr. C G. Gümpel, the anatomical mechanist, and is certainly as neat and simple a piece of mechanism as could be desired. The solenoid by which the upper carbon is lifted to form the arc when the current is turned on is connected with a roller-grip, which grasps the carbon tightly enough to prevent its falling accidentally, and extinguishing the light yet not so tightly as to prevent the feed, or the instantaneous reformation of the arc should a carbon be broken. It is in the feeding arrangement that the needly and superjoyity of the neous reformation of the arc should a carbon be broken. It is in the feeding arrangement that the novelty and superiority of the lamp consists. In all the more simple form of arc-lamps hitherto introduced gravity alone has been relied upon for bringing the carbons together, hence an instantaneous suspension of the light is inevitable; each time the arc has become too long by the burning away of the carbon the carbons are brought together by the upper one falling, and this latter has to be relighted anew. The interval, although of but a small fraction of a second's duration, is sufficient to spoil the continuity of the light. This Mr. Gümpel avoids by the use of a small shunt, which by a very slight motion keeps the upper carbon constantly to its work, and ensures the arc being practically uniform as long as the lamp is in use. This lamp is likely to be a great acquisition to the company. There was likewise shown a new electric ship-steering apparatus; it will enable the officer in command of the vessel to direct its course from the bridge without the intervention of telegraphs, or signals of any kind. The model on view was carefully and attentively examined by those present.

THE KOHINOOR SILVER MINING COMPANY.

THE KOHINOOR SILVER MINING COMPANY.

Probably nothing has tended more to prevent the realisation of profit by British capitalists upon their investments in American mines than the enormous expenses and interminable delay arising out of disputes with neighbouring owners or claimants—the result being equally disastrous to the English shareholder, whether the matter is compromised or fought out in litigation; hence it has now become recognised that to secure any hope of profit it is essential that the discoverers or owners of a lode which it is intended to work should obtain control of all the surrounding properties, in order that they may serve as barriers to keep out adverse claimants, just as a barrier of valuable coal has to be left in a colliery to keep back the water of valuable coal has to be left in a colliery to keep back the water in an adjacent flooded pit. The evil of neglecting this precaution is seen in the case of the celebrated Richmond property, although in that instance it has been proved that even the possession of a United States patent is an insufficient protection against adverse claimants and local justice. Fully appreciating these facts, the executive of the Kohinoor Silver Mining Company have been cautious to secure

the Kohinoor Silver Mining Company have been cautious to secure not only a series of highly promising locations, but also such barriers around them as shall render litigation practically impossible.

From the statements made at the meeting of the Kohinoor Silver Mining Company, reported in another column, no doubt can be entertained that several really valuable properties have been acquired, and that although the enterprise has been in existence less than two years, the shareholders have a better prospect of almost immediate returns than many undertakings which have been thrice that time in operation, and which have been making large expenditure. The reason so little has hitherto been heard of the company, although so much progress has been made, was very satisfactorily explained by so much progress has been made, was very satisfactorily explained by the Chairman—Mr. John Elliott—who remarked that they had purposely kept their proceeding as quiet as possible, as they were so satisfied from the first that the Donaldson Mine was a great success, that they saw the importance of beginning negociations at once to acquire all the locations in the neighbourhood which had any likelihood of connection with their property. With this view any likelihood of connection with their property. With this view they have purchased, and partly paid for, the Golden Link, 1000 ft. long, and the Wheatland, 1500 ft. long—the former being a conlong, and the Wheatland, 1500 ft. long—the former being a continuation of the Donaldson, and the latter equally necessary to the company. It appears that the Donaldson lode averages 3 ft. wide, and that all the development works have been in ore, the result being that the mine has been proved at a very small expenditure, and that with only 18 miners, they had 2000 tons of ore laid open in April, whilst it is anticipated that by September they can take out 500 tons of ore per month, and make handsome profits. At present they have to send the creat mills three or form miles distant sent they have to send the ore to mills three or four miles distant, but there is a probability of their being able to purchase the Idaho Mills for less than 5000%, and this will effect a saving of several dollars per ton.

lars per ton.

The meeting throughout was of a very enthusiastic character, and the lucid descriptions of the properties and their advantages given by the Chairman and by the managing director—Mr. F. A. Sands—were listened to with much interest and attention, the general opinion of the meeting apparently being that very valuable properties have been secured, and that great skill and judgment has been displayed in conducting the acceptations which he resulted in a displayed in conducting the negotiations which has resulted in so short a time in their acquisition; indeed, if the energy which has

characterised the proceedings of the board hitherto be continued it is not doubted that the shareholders will be well satisfied.

THE LA PLATA MINING AND SMELTING COMPANY. TO THE SHAREHOLDERS

From the numerous enquiries addressed to me, it appears that many proprietors, and particularly those who have only recently acquired their shares, are not thoroughly conversant with the position of this undertaking, and in order to answer them as fully as of this undertaking, and in order to answer them as fully as ible, I have thought it best to do so through the medium of this alar. I am the more pleased to avail myself of this opportunity, as it enables me to inform the shareholders that only since I have received a letter from an influential English gentle-man, who is now travelling in the United States, and who reports most favourably on the La Plata property. I quote from his letter

below.
1.—The first point upon which information seems to be required is as to the liability of the shares, and this is apparently due to the fact that the word "limited" does not form part of the title of the fact that the word "limited" does not form part of the title of the company. The La Plata Company is registered in the same way as all other American joint-stock undertakings, not one of which has the word "limited" included in its title. The liability, however, is strictly limited, the company being incorporated under the laws of the State of New York, and the capital is "unassessable under the laws of this State, and is to be taken to be full-paid stock without any liability to the holder thereof, further than that imposed by our laws with versuat to the wayse of labourers on the works." Exactly laws with respect to the wages of labourers on the works." Exactly the same provisions exist in all American railways, where also the word "limited" is entirely unnecessary.

2.—Owing to the great depression which recently characterised the stock markets, the shares of the La Plata Company receded from 21 to 1/15s. These was no other company and the stock markets.

2l. to 1l. 15s. There was no other cause whatever for this fall but sympathy with the surrounding flatness; but some uneasiness was eccasioned, and although many proprietors have expressed misgivings upon the subject, I am in a position to state that at no previous time in the history of the company was its business of a sounder and more profitable character than at present. This is abundantly demonstrated by the weekly smelting statements which are regularly published. Thus it is very anomalous to compare the present ith a few months since

In November last when the weekly returns averaged from 5000l. to 6000l., and when monthly dividends at the rate of 9 per cent, per annum were being paid, the shares were quoted 2l.

Now, when the weekly returns have largely increased (the last four weeks being 7291l., 7708l., 8317l., and 8749l. respectively), and that monthly dividends for six months past have been paid at the rate of 12 per cent. per annum, the share are still quoted at only about 2l.

The company is not a mining enterprise pure and simple as some seem to imagine, but is principally a great smelting business (one of the largest and most important) in the centre of the richest allver and lead producing districts in America. It also owns three very rich mines, but owing to the large supply of ores for smelting from surrounding properties, the company is enabled to keep all its furnaces fully occupied without much encronchment upon its own

mining resources.
4.—The company has been established for nearly three years. is presided over by a board of directors in New York, every member of which is of the highest commercial standing. Since its incorporation no less than 114,583% 6s. 8d. has been paid in dividends.

poration no less than 114,5894. 6s. 8d. has been paid in dividends. 5.—The dividends have hitherto been paid monthly, but it has recently been determined to make the distributions quarterly. 8o far from this change having been suggested from within the company, as some seem to suppose, it has been decided upon by the board in deference to the wishes expressed by the shareholders themselves, thany of whom urged the directors to ascertain the views of the whole body of proprietors upon the subject, with the result that an overwhelming majority voted in favour of quarterly rather than monthly dividends.

monthly dividends.

6.—The property has been very favourably reported upon by Mr. Thos. Rickard, M.E., a member of the firm of Rickard Brothers, of London, and owing to the largely increased number of English proprietors on the books of the company, that gentleman was appointed manager in April last. Although the administration has always been most satisfactory in every particular, the association of Mr. Rickard with the enterprise affords additional security to investors in this capacity. Capies of his official report can be obtained on application. country. Copies of his official report can be obtained on application to the company's representative in London, Mr. F. Andrews, of 21, Great Winchester-street, E.C. In a separate report addressed to hyself, dated Jan. 2 list, in answer to certain enquiries I made on specific points, Mr. Rickard summed up his favourable statement by adding—" The La Plata bids fair to take rank with the very best of industrial investments". industrial investments.

7.—In Mr. Rickard's official report he suggested certain "possible aprovements" in the method of treating the ores and other matters of detail connected with the management. It would seem from the largely increased value of the weekly product for some time past that he has already established certain beneficial changes, for, as previously stated, the recent returns have been from 72911. to previously anything over 6000l. had been regarded as

exceptionally good.

8.—An important advantage secured by the change in the time of paying the dividends is the increased popularity with which the shares are now regarded by the dealers in the Stock Exchange. Formerly, when paid monthly, the frequency of the distribution involved much confusion in the transactions, and necessitated constant claims for dividends. This will be obviated in future.

9.—A telegram received in London on the 13th instant states that.

"The net earnings for the month of June are good, and ex-

ceed \$20,000.

10. Anomalous as it may be, there is no doubt that the most dis-10. Anomalous as it may be, there is no doubt that the most disparaging feature with respect to these shares as an investment is, that they appear to return too high a rate of dividend. Gradually, however, as the investing public understand the intrinsic merits of the security, they willovercome this fancied objection, and be rather attracted than discouraged by the fact that they can be bought to yield 12 per cent. per annum. The number of shareholders has been steadily increasing for some months past, and it needs but little further good investment buying to raise the value of the shares to what I consider they are fairly worth as a high-class good dividend-paying industrial enterprise—from 21. 10s. to 31. per share. Presuming that no increase of dividend beyond 12 per cent, should be earned (though I think under the improvements inaugurated by Mr. Rickard, it is quite likely that much larger profits augurated by Mr. Rickard, it is quite likely that much larger profits will be made), the shares at 3l. would still yield 8 per cent. to an

11. I append extracts from the letter of my friend, to which I

11. I append extracts from the letter of my friend, to which I referred in my opening paragragh:—

"The deeper and richer lodes are still comparatively intact, and the ores now raised are mainly from these mines, which are owned either by corporations with large capital or by private companies with ample means, and being worked on systematic mining principles, they will, it is estimated, produce an almost unlimited supply of raw material for many years yet to come."

"Since the destruction by fire of Grant's Smelting Works at Leadville, the La Plata are the first and most extensive in the district, and they are capable of 'treating' about 170 tons per day, nearly five-sixths of which are ores brought from other mines, which have no furnaces of their own, and the ores are anelted at your works upon terms which yield almost as good a net result per ton to the company as smelting their own ores."

"The 'get' of ore from the company's mines is now only 30 tons per day: that quantity could be easily doubled; but so long as ores can be had from other mines which yield as much nett profit per ton as the ores from your own mines, it would be absurd to be working and using your own ores except when absolutely needed to prevent your furnaces being idle through deficiency of foreign supply."

"I understand two furnaces with all the appliances could be added to your

absolutely needed to prevent your lurnaces being land should be added to your foreign supply.

"I understand two furnaces with all the appliances could be added to your existing plant for \$25,000, equal to about 5000f, sterling. This seems a low estimate, but no further engine-power would be needed, and no additional buildings or chimneys required. Each furnace could smelt 23 tons per day, which, upon the assumption of a profit of only \$5 per ton, would bring in about \$230 per day, or 17,000f. (sterling) a year, and this would increase the dividend from 12 per cent. to 16 per cent. per annum."

"As, however, the general cost of management would not be perceptibly in

16, Tokenhouse-yard, London, E.C., July 21, 1882.

MR. RALPH MOORE, G.M.I., ON MINING IN AMERICA

The monthly meeting of the Mining Institute of Scotland was held on Thursday in Hamilton.—Mr. RALPH MOORE, the President, who has just returned from a two months' tour in America, favoured the Institute with a brief account of his impressions of American mining. Institute with a brief account of his impressions of American mining. He travelled about 7000 miles in the country—from New York to San Francisco—and came quietly back, seeing the mining in Nevada, and also a good deal of it in the anthracite region of Pennsylvania. There could be no doubt of the immense resources of the country in minerals—not only in gold and silver, but in coal and iron—and he had no doubt in 40 or 50 years its mineral production would exceed anything in England. He was down three of the gold mines in Nevada, one of which was 2700 ft, deep, and the others 2500 ft. and upwards. The machinery was of a first-class character, and well as some of their engines in the Hamilton district were kept, he should say those in America were still better kept. The pumping machinery was someengines in the Hamilton district were kept, he should say those in America were still better kept. The pumping machinery was something wonderful—in one case they were pumping 15-in. sets for 2500 ft.; in another case 1600 gallons a minute 2500 ft. Below ground the heat in the lode was about 100°, and in the exploring drifts frequently 130° and 140°, while the water issuing from the fisdrifts frequently 130° and 140°, while the water issuing from the fissures came out at a temperature of 160°, something intolerable, and an enormous quantity of ice water was used for drinking and cooling down the men, and was provided by the owners. On the surface they had a very good arrangement of baths where the men shifted, washed, and cooled off previous to going home; they worked in eight-hour shifts, and a very fine set of men they were, mostly young fellows, as the whole region had been opened up since 1860. An immense quantity of alluvial washing is still going on, and the American Consul told him that as much as three millions a year was derived from this source. Coming across home he called at Denver, a place of 60,000 source. Coming across home he called at Denver, a place of 60,000 inhabitants, which had been raised within 10 or 15 years, and then went into the anthrocite region of the Shenandoah Valley, where some of the seams of coal were 60 fms. thick. The mammoth seam some of the seams of coal were 60 fms. thick. The mammoth seam was the principal, and varied from 30 to 40 ft. thick. He went into some of the mines, and was very much struck with the whole arrangement, only he was afraid they were not very particular as to the quantity of coal they got out, and one did wonder that in such a good seam so much coal was being lost. The condition of the men was very comfortable, their houses were of a good kind, their children well clad, and themselves exceedingly happy. He was very proud to see it: he saw some Scotchmen, not very many, a good many Germans and Welshmen, a good many Irishmen, but not so many as he would have thought. The work being rather dangerous necessitated a better class of workmen. He was pleased to find that the State Inspector of Mines was a man from this district, Mr. Mauchlin, who went out a working miner, and he got very much attention from him. He also met an oversman from Wishaw and several managers, but, as he had said, not nearly so many as he would have thought. One thing that particularly struck him was while in a mining town of 13,000 inha-bitants, and walking through the streets on a Saturday night, he saw a great number of miners well clad, but he did not see a single drunken (Applause.) He thought that was highly creditable to them.

SOUTH WALES INSTITUTE OF ENGINEERS.

SOUTH WALES INSTITUTE OF ENGINEERS.

The quarterly meeting of members was held at the Royal Hotel, Cardiff, on Thursday, Mr. E. Williams, the President of the Institute, in the chair. There were also present Mr. James Murphy Newport; Mr. James McMurtrie, Radstock; Mr. Marcus Moxham' Swansea; Mr. W. P. Stewart, Blackwood; Mr. Thomas Griffiths. Cymmer; Mr. T. Hurry Riches, Cardiff; Mr. J. Waddle, Llanelly' Mr. A. B. Bassett, Cardiff; Mr. Charles Thompson, Cardiff; Mr. A. Slater, Gloucester; Mr. Henry K. Jordan, Newport; Mr. T. H. Deakin, Pontypool; Mr. T. G. Davies, Treorky; Mr. Charles F' Gooch, Cardiff; Mr. Hort. Huxham, Secretary to the Institute, Swansea, &c. The following gentlemen were elected—As Members: Mr. Charles Liddell Waugh, mining engineer, the Burroughs, Cockermouth; Mr. George William Wilkinson, mining engineer, Risca House, Risca, Monmouthshire; Mr. Evan Thomas, safety-lamp manufacturer, Aberdare. As Associates: Mr. Edward John Howard, mine owner, 34, West Bute-street, Cardiff; Mr. Robert William Tolfree, iron and steel works, Treforest. As Graduate: Mr. Robert William Tolfree, iron and steel works, Treforest. As Graduate: Mr. Robert William Tolfree, iron and steel works, Treforest. As Graduate: Mr. Robert William Tolfree, iron safety-lamp safety-lamp manufacturer, Aberdare. As Associates: Mr. Edward John Howard, mine owner, 34, West Bute-street, Cardiff; Mr. Robert William Tolfree, iron and steel works, Treforest. As Graduate: Mr. Robert William Tolfree, iron safety-lamp safety-lamp manufacturer, and safety-lamp safety-lamp manufacturer, and safety-lamp

and which were in every respect satisfactory.

A very able paper, on the "Economy of the Blast Furnace," was read by Mr. I. L. Bell, F.R.S., the eminent ironmaster, of Middles borough, who went minutely into the theory and practice of the manufacture of pig-iron and the consumption of fuel in blast furnaces. The paper was full of figures and formulæ, which will be a valuable addition to the published proceedings of the Institute. The cordial thanks of the members were passed by acclamation to Mr. Bell.

A valuable paper was also read by Mr. Sydney F. Walker, M.I.T.E., on the "Principle of Electric Lighting and the Transmission of Power by Electricity," directing attention to the different systems of elec-tric lighting which have been brought before the public, and the

special adaptability of electricity to mining operations.

These papers were briefly discussed, and then adjourned to the next meeting for further consideration.

THE GREAT LIMESTONE SLIP IN DERBYSHIRE.

One of the greatest landslips recorded took place lately at Crich, in Derbyshire, by which some hundreds of thousands of tons of fine limestone have been thrown down bodily, happily without doing any personal injury, and although one moderate-sized mansion was overwhelmed, the occurrence will be the means of putting some thou-sands of pounds into the pockets of the Clay Cross Coal and Iron Company, who for years have been engaged in blasting the stone for the use of the iron furnaces. The work of the quarrymen and the use of explosives have been suddenly done away, so that all now to be done is to break up the stone and send it away, and thus years of labour have been saved. The hill itself which has been removed is one of the most remarkable for its geological formation. It consists of strata of limestone which by volcanic action have been forced up into a dome through overlying strata of an earlier period which were originally deposited horizontally on the limestone, and at one point a shaft was sunk in search of lead ore. It was noticed last year that the quarrying had caused a considerable crack in the cliff extending to a distance of between 100 and 200 yards from the north to the south-west, and the fissure becoming larger it was puddled, but the rains in all probability caused the fissure to reopen and extend, so that in some places it was a yard or two wide. The day before the occurrence took place there were strong indications of what was about to come, so that the few residents were able to make their escape in time. There was a villa in proximity to the cliff, and whilst some men were engaged in taking an inventory of the furni-ture there was a trembling motion which led to an evacuation of the premises. Then the house began to slide towards the road and then was crumpled up like so much paper, and then some cottages rather farther off gave way, and then came the mighty rush, the cliff moving like a thing of life, the effect being to raise the road up in the first instance and then sweep it away. The cliff, one writer long since stated, was not equalled in England for the lesson it teaches with

creased, the profit per ton on the extra output should be at least \$10, which would again give another 3 per cent. of dividend."

"This, however, is by no means all that might be saved and added to dividend."

In conclusion I venture to express my firm conviction that, from all the information I possess, and from the opinion of the best authorities and specialists who have visited and reported on the property, the La Plata Mining and Smelting Company is a thoroughly honest and bona fide concern, and its shares a thoroughly sound and improving investment.

WILLIAM ABBOTT.

WILLIAM ABBOTT.

WILLIAM ABBOTT.

WILLIAM ABBOTT.

We saved to some of the ancient irruptions of volcanic agency. When the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of the cliff, thus showing that volcanic agency was the cause of the upheaval which raised the cliff use to clear the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of the cliff, thus showing that volcanic agency was the cause of the upheaval which raised the cliff use to some of the ancient irruptions of volcanic agency. When the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of the cliff, thus showing that volcanic agency was the cause of the upheaval which raised the cliff as a client fragment of the company has being sunk in the expectation of meeting with lead a bed of lava was found in the middle of the cliff, thus showing that the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of lava was found in the middle of lava was found in the middle of lava was found in the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of lava was found in the middle of lava was found in the shaft was being sunk in the expectation of meeting with lead a bed of lava was found in the middle of lava was found in the middle of lava was found in then it has been continuously worked for the iron furnaces. Now however, not only will the company have supplies without being quarried, but they will be able to supply others. The great landslip, which had it been of any other material would have been a most disastrous occurrence, will be quite the reverse, for the "slip" has done more in the course of a few minutes than quarrying for years could have effected, and that at a comparatively trifling cost,

THE GOLD FIELDS OF GUAYANA.

The Callao Gold Mine, which was opened and worked by a Vene. The Callao Gold Mine, which was opened and worked by a Vonezeulan Company, has recently been sold to a group of Paris bankers, headed by Mons. Cazalet, for the sum of 1,000,000% sterling. The gold produced at the mine during the year 1881 amounted to 71,753 ozs., or almost exactly to two English tons. During that year, however, the production of gold was considerably restricted, in consequence of the very large amount of dead work that was carried out; the output of gold for the present year has so far been very considerably increased. The Callao Mill at present comprises 60 stamps, but it is intended at an early date to increase the mill to 200 stamps. for which an abundance of ore has been laid open, suff. 200 stamps, for which an abundance of ore has been laid open, sufficient to last for many years to come. The original capital of this company was 50,000*l*, represented by 31½ shares, consequently each share on which 1588*l*. has been paid will now receive from the sale of the mine about 31,750*l*.: 9710 workmen were more or less engaged

this mine during last year.

The Chile Mine, which is in the same district as the Callao, is another grand property. It is steadily growing into importance, and will shortly rival the Callao. The noted Chile vein has been opened out in this company's property for nearly a mile and half in length, and the gold-bearing quartz discovered will, doubtless, suffice to last for the full time of the company's lease, of which about 95 years have yet to run. There are at present about 500 men work

ing at this mine.

The Potosi Company, having nearly exhausted their small, but

The Potosi Company, having nearly exhausted their small, but rich, portion of the Chile vein, are opening a new, and what bids fair to prove a valuable mine on their Peru lode, the ore from which yields an assay about 3½ ozs. of gold per ton.

The Panama Mine has been acquired by an influential group of French capitalists, who will, doubtless, be well rewarded for their investment, as this is another property of great value, with very large quantities of gold quartz actually laid open, and a mill of 50 stamps erected ready to be put in operation.

The Nacupai Mine, a property adjoining the Callao, and already proved to be equally rich, has also been acquired by a group of Paris bankers, and there can be no doubt but what this property under able management will return very large dividends to the proprietors. The hill of 60 stamps is erected and ready for the commencement of active operations.

The Callao Bis Company have commenced crushing operations with a 20 stamp mill, and shipped home their first 150 ozs. of gold. As the noted Callao lode passes through the centre of this property there can, it is thought, be little doubt but what the company's operations will be crowned with success at an early date.

El Tigre Mine, which at one time rivalled Calloa in the production of gold but the operations at which during the part few years have

El Tigre Mine, which at one time rivalled Calloa in the production of gold, but the operations at which during the past few years have been less successful, in consequence of the mine closing in and not having again been properly opened, will undoubtedly, when brough under proper management, again produce very large quantities of

the precious metal.

These and many other valuable properties are comprised in the Caratal district. But probably the greatest success which has attended mining operations in any country during the past few years is now being met with in the Cicapra district of Guyana, about 38 miles north-west of the Caratal group of mines. The pioneer mine in this district is the Alianza de Cicapra, the reduction operations at which were commenced early in May last, but in consequence of the machinery being still in an incomplete state, the first trial was limited to 10 tons of ore, which gave \$15 \text{ ozs. of gold, or \$1\frac{1}{2}\$ ozs. or gold, or \$1\frac{1}{2}\$ ozs. per ton. The quartz now lying on the bank raised from sinking the shaft at this mine is estimated to contain about \$60,000l\$.

The property is owned by a native company, who have expressed.

The property is owned by a native company, who have expended about 40,000% on its development. The shares of the company are at present selling at a price which represents 320,000% as the present value of the mine, but some of the most experienced engineers in the country who have inspected it estimate its value at more than double this amount. In a short time this will, it is thought, make one of the largest and most productive gold mines in the world. In the neighbourhood of the Alianza de Cicapra there are a numthe neighbourhood of the Alianza de Cicapra there are a number of other valuable mines which are gradually being developed and brought into notice. Rich discoveries of gold are also frequently made at a number of other points in the Guayana gold fields.

A railway which will be of immense importance to these mines A fallway which will be of himities in importance to these lists now being surveyed by the concessionaires—the Guayana Company of London—from the port of Saravia on the River Orinoco up to the town of Guacipati, the capital of the gold mining districts. The great drawback to the successful working of the mines hitherto the difficulty of getting an abundant supply of good labour. The freight from the River Orinoco up to the mines—a distance by the mule track of from 160 to 180 miles—having averaged from 50% up to 85% per ton. On the completion of this railway, the works of which are now being actively taken in hand, the freight will be reduced to less than a quarter of this amount, whilst the wages of duced to less than a quarter of this amount, whilst the wages of miners, which now average from 12s. to 15s. per man per day, will probably be reduced to the same proportion. There is believed to be a great future for the gold mines of Guayana, the extent and richness of which it is impossible at the present to estimate.

THE HAMILTON PALACE SALE .-- As a matter of record, the event being over, we may state that the grand total of the sale amounts to 397,562*l*., which, distributed over the 2213 lots, gives an average all through the sale of about 180*l*. per lot. This wonderful sale has created a sensation for the past month quite beyond all precedent, and may be considered to be altogether by far the most important as regards money value that has ever been known, to say nothing of the suressing excellence of many of the works of art. The Store the surpassing excellence of many of the works of art. sale, of 40 days, gave a total of 75,652l; the Strawberry-hill sale, of 10 days, only realised about 40,000l.; the Bernal sale 62,691l., so that this Hamilton sale exceeds these by more than five times the

THE SOUTH YORKSHIRE COLLIERIES, AND THE LONDON COAL TRADE.—An adjourned meeting of coalowners was held on Wednesday at the King's Head Hotel, Barnsley, to consider the reply of needay at the King's Head Hotel, Barnsley, to consider the reply of the Great Northern with respect to an application made to reduce the tonnage rates for coal from Yorkshire to London. Mr. A. Chambers, of the Thorncliffe Collieries, presided. The reply of Mr. Oakley, on behalf of the directors of the Great Northern, was appended to the notice calling the meeting, and stated that they were unable to make any concession. It may be stated that the question of a reduction of the rate, which is 8s. 3d. per ton, including a long large three given given from the construction of the rate, which is 8s. 3d. per ton, including the property of the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. per ton, including the construction of the rate, which is 8s. 3d. question of a reduction of the rate, which is ss. 3d. per ton, including city dues, has been agitated for a great number of years. The position of the district collieries and the supply of coal to the Metropolis was discussed, and a committee was chosen to consider the necessity of conferring with the directors of the London and North-Western Railway Company with respect to the district traffic, in order, if possible, to obtain some relief from the present disastross state of affairs.

Mr. Alfred T. Slade, chartered accountant, of Grocer's Hall-coultry, announces that Mr. Crawford W. Slade, chartered accountant, of C

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nd Newport, Mon., has entered into partnership with him, and that the business ill in inture be carried on in London, Cardiff, and Newport, Mon., under the rm of Mestra. A. T. Slade and Co.

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SHARES in this very promising ARSENICAL PYRITES and COPPER MINE FOR SALE at 12s. 6d. a share. Fully paid shares. Apply to Messrs. T. and J. START, Calstock, Tavistock.

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50 Gook's Kitchen.

50 Herodsfoot.

50 Cam Brea.

20 Herodsfoot.

50 Cam Brea.

20 Killfreth.

50 Cootacovil.

30 Langford.

10 Devon Consols.

100 Morfa Du.

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20 North Busy.

20 West Pobreen.

20 Deven.

20 East Blue Hills.

50 Old Shepherds.

50 East Buller.

50 Cold Walcombe.

50 East Chiverton.

100 Parys Copper.

100 Wheal Basset.

100 Wheal Sisters.

50 Phonix United.

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The Contractor must engage to sink not less than 4 fms. per month, under penalty of cancelling his contract at the Committee's option.

Steam or compressed air will be supplied by the Mine, and the rock broken down to surface. All other costs to be burne by the Contractor.

For further particulars apply to Capt. Davey, at the Mine, near Redruth, Cornwall; or to Mr. Edward Ashmead, the Secretary, 2, Draper's Gardens, London, E.C.

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N TARIO SILVER MINING COMPANY.

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THE REGULAR MONTHLY DIVIDEND AT FIFTY CENTS
(2s.) PER SHARE has been DECLARED for June, PAYABLE at the Office of the Transfer Agents, Wells, Fargo, and Co., 65, Broadway, on and after the 15th inst.

The above Dividend is payable at our office on all Stock registered in England.

in England.

EIVES AND ALLEN, Agents, 99, Cannon-street, E.C.

THE

PEPPER MILL BRASS FOUNDRY COMPANY Of WIGAN,

Are EXHIBITORS of COLLIERY SPECIALTIES at the EXHI BITION in the ALEXANDRA PALACE, NORTH LONDON,

which OPENED on the 26th inst. No. of Stand, 126, in the East Side of the Building

SUMMER TOURS IN SCOTLAND.

LAS GOW AND THE HIGHLANDS.

ROYAL ROUTE VIA CRINAN AND CALEDONIAN
CANALS. Boyal Mail Steamer COLUMBA or IONA, from
A.M., conveying, in connection with his West Highland Steamers, PASSENGERS for OBAN, PORT WILLIAM, INVERNESS, LOCHAWE, SKYE, GAIRLOCH, STAFFA, IONA. GLENOGE, ISLAY, STORNEWAY, &c.

Official Guide, 3d.; Illustrated, 6d. and 1s. by post: or at W. H. Smith and
Son's Railway Bookstalls. Bill, with Map and Fares, free from the Owner, DAVID MACBRAYNE,

119, Hope-street, Glasgow. CALIFORNIAN AND EUROPEAN AGENCY, 500, MONTGOMERY STREET, SAN FRANCISCO, CAL. J. JACKSON, Manager THE PROPERTY HAS BEEN PERSONALLY EXAMINED BY TWO MEMBERS OF THE COMMITTEE.

THE WEST AFRICAN GOLD FIELDS, GOLD COAST COLONY.

I have examined the sample of gold dust received May 26th, and find the following to be the result:

Apatim Gold—

From 3 lbs. Clay: 1 oz. 13 dwts. 12 grs. per ton of 20 cwt. FRED. CLAUDET.

Assay Office and Laboratory, 6 and 7, Coleman-street,
London, E.C., May 26, 1882.

The clay above referred to was picked up at random by Capt.
Burton, who says the property contains millions of tons of it.

THE WEST AFRICAN GOLD FIELDS

Within a quarter of a mile of the sea coast, 4 square geographical miles of British territory impregnated with gold Incorporated under the provisions of the Companies Acts, 1862 to 1880, limiting the liability of shareholders to the amount of their shares.

Capital £100,000, in 50,000 shares of £2 each,

Of which 33,340 are offered for subscription at par, the remaining 16,660 being issued to the vendor in part payment of the property; 5s. per share payable on application, 5s. per share payable on allotment, 10s. per share payable two months after allotment. In cases where no allotment is made, the deposit will be returned

COMMITTEE.

Captain BAYLEY, Oriental Club, Hanover Square, W. Captain RICHARD F. BURTON, F.R.G.S., Montagu Place, Montagu

Captain RICHARD F. BURTON, F.R.G.S., Montagu Place, Montagu Square, W.
Commander CAMERON, B.F., C.B., Shoreham, Sevenoaks, Kent.
GEORGE CLERIHEW, Esq., Director of the Government Stock Investment Company (Limited).
E. BOYCOTT JENKINS, Esq., 9. St. George's Place, Hyde Park.
ANDREW STEWART, Esq., Liverpool, Director of the Gold Coast Mining Company (Limited).
JAMES WISEMAN, Esq., F.R.G.S., Orme Square, Kensington Palace Gardens.

Gardens

BROKERS.—Messrs.DE VERE, BEAUCLERK, and Co., 2, Copthall BROKERS.—Messrs. DE VERES, BEAUCLERRA, RIG CO., 2, Copenan Buildings, E.C., and Stock Exchange. SOLICITORS.—Messrs. HARPER and BATTOCK, 23, Rood Lane, E.C. BANKERS.—The LONDON and COUNTY BANKING COMPANY, (Limited), 21, Lombard-street, E.C., and Branches. SECRETARY.—Mr. G. B. WALKER. OFFICES—1, ST. MICHAEL'S HOUSE, ST. MICHAEL'S-ALLEY, CORNHILL.

PROSPECTUS.

PROSPECTUS:
This company is formed for the purpose of acquiring a lease, granted in 1881 by Chief Kwabina Sensence of Apatim, in the district of Axim, British Gold Coast Protectorate, of 144,000,000 square feet, or 3300 acres of land, known as the Gold Mines of Boujah, and feet, or 3300 acres of land, known as the Gold Mines of Boujah, and all mines, minerals, and substances upon and under the same, for a term of 99 years at a yearly rent of £12, to be increased to £120 from the commencement of the regular working of the mines, with the option of renewal for a further period of 99 years upon the same terms. The lease has been duly registered in the registry of the Supreme Court of the Gold Coast Protectorate.

The centre of the property is situated in 4° 55' north latitude, longitude 2° 14' west, 2\frac{3}{2} geographical miles north, and by west from the port of Axim, its nearest point being 2200 yards from the Fort, and its north-western limit abutting upon the Ancobra river. It has been recently examined by Mr. R. B. N. Walker, F.R.G.S., by Capt. Richard F. Burton, and by Commander Cameron, R.N., C.B. Extracts from their reports are annexed.

Richard F. Burton, and by Commander Cameron, R.N., C.B. Extracts from their reports are annexed.

Capt. Burton, in January, 1882, went to the Gold Coast with Commander Cameron, and the journey convinced him that we have there another California. Landing on the shore they found native women washing the sand for gold. After rain they found gold spangles showing in the streets and roads; indeed, it is simply a country impregnated with gold. They found two distinct processes; the men sinking pits or shafts to scrape the walls of the reefs, and the women washing the topsoil, or in other words "hydraulicing," They consider that if honest work be done on the Coast, there is no place where there can be a better investment for money than in the gold mines of the West Coast of Africa.—Vide Liverpool Daily Courier, May 22, 1882.

The port of Axim is only 23 days' steam from Liverpool, and there is regular communication by steamer every fortnight, and oftener when inducement is given.

The Gold Coast of Africa has been famous for centuries as a gold

producing country.

This gold has been hitherto obtained in the most elementary manner, the natives being in absolute ignorance of the commonest mechanical appliances for draining and working their shafts. As soon, therefore, as the mines are "drowned out," which constantly occurs, the natives sink another shaft; and so rich is the whole country that for centuries they have been satisfied with the form country that for centuries they have been satisfied with the fore-going methods, leaving the underlying reefs for the intelligence and

country that for centuries they have been satisfied with the foregoing methods, leaving the underlying reefs for the intelligence and enterprise of the present day.

It is not alone in the surface washings that the great wealth of this property exists, the whole being highly auriferous with numerous reefs running through it in meriodional directions. Vide report. It is manifest that a property containing as this does 4 square geographical miles would be impracticable to thoroughly work under one organisation; there sufficient extent of ground to engage the attention and employ the financial resources of several combinations. It is, therefore, intended that this company shall organise, when practicable, other companies, amongst whom portions of the land shall be divided, each paying to this company such price in cash and shares as may be arranged between them and the committee. Thus the parent company, in addition to its own mining operations, will, as holders of stock in the various companies to be formed, be interested in the whole mining industry of the concession. Pending such subdivision of the property, the washings alone will, in the opinion of the committee, enable them to pay handsome dividends on the capital to the company.

With this chievit is intended at once the results and and so the capital to the company.

capital to the company.

With this object, it is intended at once to provide and send out the necessary machinery—steam-engine, pump, chemicals, planks, for making sluices, &c., and the committee confidently anticipate that within six months results will be obtained highly satisfactory to the

within six months results will be obtained nighly satisfactory to the shareholders.

Such portions of the property as may eventually be sold will probably realise sufficient to recoup several times over the entire purchase-money to be paid by this company.

The only contract entered into is dated 19th June, 1882, and made between J. W. Reader of the one part, and G. B. Walker, for and on behalf of the company, of the other part, whereby the company acquires 3300 acres of land, close to the port of Axim, for £22,500 in cash and one-third of the nominal share capital of the company. A copy of this contract, to which is annexed the original lease, together with the Memorandum and Articles of Association, may be seen on application to the solicitors to the company.

No tetter illustration of the estimate in which the Gold Coast is held by high Government officials can be given than a quotation from the speech of the Governor, Sir Samuel Rowe, made at the meeting of the Royal Geographical Society, held at the London University, on Monday, the 26th June last. He stated—

"That after rain the native police begged to be let off parade, in order that they might pick up the gold dust which lay under their feet."—See Morning Post, June 28, 1882.

feet."-See Morning Post, June 28, 1882.

J. S. MERRY, ASSAYER AND ANALYTICAL CHEMIST, SUPPLIES ASSAY OFFICE REQUIREMENTS AND RE-AGENTS. BOILER EXPLOSIONS ACT, 1892.

BOILER EXPLOSIONS ACT, 1882.

NOTICE TO POLICE AND SANITARY AUTHORITIES, AND TO THE USERS OF STEAM BOILERS.

The Boiler Explosions Act, 1882 (45 and 46 Viet., c. 22), is now in force. Users of Steam Boilers should at once obtain a copy of the Act, in order that they may avoid the penalties attendant on a disregard of its provisions. The clerk of any police, or sanitary, or other local authority, and any user of a steam boiler cother than of a boiler used for domestic purposes) can obtain a copy of the Act gratis by making application by post to the Undersigned within ten days from the date of this notice.

Issued by order of the Board of Trade, this 15th day of July, 1882.

THOMAS GRAY,

One of the Assistant Secretaries to the said Board, 7, Whitehall Gardens, S.W.

ESKDALE, CUMBERLAND.

VALUABLE MINING PROPERTY FOR SALE.

TO BE SOLD, BY PRIVATE TENDER, pursuant to an Order of his Lordship, the Vice-Chanceller Bacon, made in the Matter of the Companies Acts, 162 and 1857, and in the Matter of the WHITE-HAVEN IRON MINES (LIMITED), the RIGHT of MINING for IRON ORE in and under all that tract of hill and valley land lying and being on the north side of Eskdale, in the country of Cumberland, commencing about 4½ miles east of Ravenglass, in the said country, and terminating at the village of Bole, in Eskdale aforesaid, and containing 2003 acres, or thereabouts. Together with all MINES, SHAFTS, LEVELS, and WORKINGS now opened upon, in, and under the said lands, with full liberty rights and powers of working, raising, selling, and removing all the iron ore gotten or to be gotton therefrom. And also Mining and other Plant, Machinery, Tools, Materials, Buildings and Shedding, and Iron Ore lying and being or in and about the said mines or any of them. And also all that piece or parcel of freehold ground and gardens, with the 12 houses standing and being thereon.

parcet of freehold ground and gardens, with the case of the control of the contro

SECOND-HAND, BUT EQUAL TO NEW:—
STEAM BOILERS.—Three first-class Boilers, 30 ft. by 7 ft., two flues,
Galloway tubes in, and fittings, four years old, insured at 75 lbs. pressure. Will
be sold cheap.
BOILERS.—Two Boilers, 28 ft by 7 ft., two flues. Been working at 65 lbs.
Price on rails, £130 cach.
Other sizes of Boilers in stock, in excellent condition, 28 ft. by 7 ft., 24 ft. by

Price on rails, £130 each.
Other sizes of Boilers in stock, in excellent condition, 28 ft. by 7 ft., 24 ft. by
7 ft., 24 ft. by 6 ft., 20 ft. by 5 ft., 15 ft. by 5 ft., and 12 ft. by 5 ft. Safe for 65
and 60 lbs. pressure. Very cheap.
PUMPING ENGINES.—Beam and Horizontal. Diameters of cylinders,
100 in., 90 in., 65 in., 60 in., and 38 in. Very cheap.
WINDING ENGINES and COLLIERY PLANT of every description, second-

H. HELLEWELL AND CO., 4, NORTH CORRIDOR, ROYAL EXCHANGE, MANCHESTER.

RAILS for SIDINGS, TRAMWAYS, &c., with all fittings complete. All sections, from 10 to 80 lbs. per yard Shippers enquiries promptly attended to.

Apply to G. BRADSHAW, 22, Cooper-street, Manchester. OR SALE, TWO SECOND-HAND ENGINES, equal to new 26 in. cylinders, 4 ft. stroke, mounted on strong cast-iron diagonal frames, and fitted with condensers and reversing gear; suitable for Winding, Air-compressing, or Driving Stamps, and will BRESSID CHEEN EACH.

Also, a NEW 12 in. HORIZONTAL ENGINE, and ONE 5 in. and

Also, a NEW 12 16. HORIZONTAL ENGINE, and ONE 5 in. and ONE 6 in. SECOND-HAND DONKEY ENGINES
Every description of MINING PLANT always on sale.
Apply to Francis Dingey, Engineer and Ironfounder, Truro
Cornwall, where the above may be seen.

THE

A LLEN STEAM ENGINE GOVERNOR developes the utmos

Power, gives Uniformity of Speed under varying loads, and
Economises Fuel.

ALSO

PEET'S PATENT VALVE TAP, for Steam, Water, and Gas, from 1 inch upwards. Simple, durable, double seats, full way, and particulars apply to particulars apply to the seats. or particulars, apply to-

WHITLEY PARTNERS, RAILWAY WORKS, HUNSLET ROAD, LEEDS.

PUMPS

AT GREATLY REDUCED PRICES:-**NEW.** HORIZONTAL — Two 12×8 ; one 3×2 ; one $3 \times 1\frac{1}{2}$ one 7×5 , with condenser; one new treble barrel, 4 in rams, for horse

DONKEYS.—Two 51 in. cylinder, 9 in. stroke, 3 in. ram. PULSOMETERS.—One No. 1, and foot valve; one No. 3, and foot

SECONDHAND, HORIZONTAL - One 12 × 5; one 6 × 5; to 5×3 ; one 6×3 ; one $3 \times 1\frac{1}{2}$.

DONKEYS.—One $8 \times 10 \times 4\frac{1}{4}$.

PULSOMETERS.—One No. 1.

CENTRIFUGAL-One 4 in.; one 8 in., by Gwynne; one 8 in. Appold's patent. HOLMAN'S DOUBLE FORCE, 5 in. cylinder.

All in first-class order. Prices and full particulars from the owner.

CHARLES D. PHILLIPS,

MACHINERY REGISTER OFFICES, NEWPORT, MON.

N.B.—SPECIALITE.—Lathes, Drilling Machines, and Engineers' Machine Tools generally.

ENGLISH INVESTMENTS

AMERICAN MINES

TROWBRIDGE BAILEY,

MINING ENGINEER AND EXPERT,

MINING ENVINEER AND EARERIT,
Member American Institute Mining Engineers.
Detailed and Accurate Reports furnished upon Gold, Silver, Copper, Coal, Properties, Mill Enterprises, &c., in Colorado, New Mexico, and the Central Mining Districts of the United States. Titles examined, Maps constructed, and Reliable Information of any nature concerning Mining Interests furnished promptly.
A List of English and American References of high character can be obtained from Messrs. MARCUS WARD and Co., No. 68, Chandos-street, London; or MINING JURNAL, Office. from Messrs, M. JOURNAL Office

nications for Mr. BAILEY should be mailed to-IDAHO SPRINGS, COLORADO, U.S.A.

NEWFOUNDLAND MINERAL L'ANDS. TO CAPITALISTS.

UNDERSIGNED would inform CAPITALISTS that they THE UNDERSIGNED would inform CAPITALISTS that they
hold over ONE HUNDRED LICENCES for LAND in the
various MINERAL SECTIONS of the Island, and are prepared to
TREAT FOR A PORTION OF THE SAME, with a view of thoroughly prospecting such licences, and eventually working those
upon which COPPER, LEAD, or other Mineralmay be found. Each license comprises three square miles. Apply to—
JOHN STEER.

St. John's, Newfoundland, April 17, 1882.

REPORTS ON MINES, &c. THE UNDERSIGNED, Graduate of the Royal School of Mines

Mexico, and in Spain, undertakes the reporting upon MINING and METALLURGICAL INDUSTRIES in the interest of investors Denver, Colorado, U.S.A. A. M. BELL. Denver, Colorado, U.S.A.

> JONES, MINING ENGINEER,

GIJON (ASTURIAS), SPAIN

Mines inspected and reported on. Assays and valuations effected. Has on hand offers of Mines of Copper, Calamine, Blende, Phosphat of Lime, Tin, Lead, Iron, Manganese, and Manganiferou Iron Ores In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

N the MATTER of the COMPANIES ACTS, 1862 to 1880, and A the MATTER of the COMPANIES ACTS, 1862 to 1880, and of the OALLINGTON CONSOLS (LIMITED).

By an Order made by His Honor, the Vice-Warden of the Stannaries, in the said Matter, dated the 6th day of July instant, on the Petition of Frederick Jozes, of Albert-ternase, Church-road, Upper Norwood, in the County of Surrey, Merchant, claiming to be a Creditor of the said company, IT WAS ORDERED that the VOLUNTARY WINDING-UP of the SAID COMPANY be continued under the supervision of the Court, and that the Liquidators appointed by the Company to conduct such Voluntary Winding-up be also continued.

F. HEARLE COCK, Turo.

(Agent for Snell, Son, and Greenip, 1, George-street, Mausion House, London, Petitioner's Solicitors.)

Dated Truro, this 15th day of July, 1832.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon

IN the MATTER of the COMPANIES ACTS, 1862 to 1880, and in the Matter of the WALKHAM UNITED MINES (LIMITED). Notice is hereby given, that a PETITION for the WINDING-UP of the ABOYE-NAMED COMPANY by the Court, was, on the 19th day of July instant, presented to the Vice-Warden of the Stannaries by John Neill, of No. 42, Poultry, in the Oity of London, Advertising Agent, Trading under the style or firm of "The Universal Advertising Agency," claiming to be a creditor of the said company, and that the said Petition is directed to be heard before the Vice-Warden, at the Law Institution, in Chancery-lane, London, on Monday, the 31st day of July instant, at half-past Two o'clock in the afternoon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the Petitioner, his solicitor, or his agent, of his intention to do so, such notice to be forthwith forwarded to R. M. Paul, Esq., Secretary of the Vice-Warden, Truc.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same from the Petitioner, his solicitor, or his agents, within 24 hours after requiring the same, on payment of the regulated charge per folio.

per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's office, Truro, on or before the 28th day of July instant, and notice thereof must, at the same time, be given to the petitioner, his solicitor, or his agents.

HODGE, HOCKIN, AND MARRACK, Truro, Cornwall (Agent for J. W. Sharpe, 11, Queen Victoria-street, London, Petitioner's Solicitor.)

Dated Truro, July 20th, 1882.

In the High Court of Justice.-Chancery Division.

IN THE MATTER OF THE MID-CANNOCK COLLIERY COMPANY (LIMITED). IN LIQUID.
MID-CANNOCK COLLIERY,

CANNOCK, STAFFORDSHIRE.
IMPORTANT SALE of VALUABLE MACHINERY, COLLIERY, and BRICK WORKS, PLANT AND STOCK, HORSES, AND OTHER EFFECTS.

ESSRS. JOSEPH COOKSEY AND SON have received ESSENS JOSEPH COORERL AND SON nave received instructions from Mr. Walter N. Fisher, the Liquidator, TO SELL, BY AUCTION, at the Mid-Cannock Colliery, on Monday, Tuesday, and Wednesday, the 31st July, and 1st and 2nd August, 1832, at Eleven o'clock a.M. precisely each day—the WHOLE of the MACHINERY, PLANT, STOCK, &c., including TWO PAIRS of HORIZONTAL HIGH-PRESSURE WINDING ENGINERS, with 32 in. cylinders and 5 ft. stroke, and 18 in. cylinders and 3 ft. 4 in. stroke respectively.

espectively.
Two lofty pitch pine pit frames, with pulleys for round ropes; pitch pine conductors.

FOUR LARGE STEAM BOILERS, BOILER FEED ENGINE, CAST-IRON
WATER HEATER, STEEL WIRE WINDING and HAULING ROPES, three

WATER HEATER, STEEL WIRE WINDING and HAULING ROPES, three pit cages, water druggon.

A 30 ft. WADDLE VENTILATING FAN, with horizontal ENGINE.

TWO SCHIELE'S 36 in. VENTILATING FANS.

BULL PUMPING ENGINE, with about 80 yards of 7 in. pump trees and pitch pine pump rods; 110 yards of 13 in. pump trees; three cast-iron T-beams.

Horizontal high-pressure STEAM ENGINE, 26 in. cylinder, 4 ft. stroke.

Tangge's "SPECIAL" PUMP; TWO PORTABLE ENGINES; saw bench, mortar mill, brickworks' plant, about 165 tons of wrought-iron tramway rails.

297 colliery tubs (21 in. gauge, large quantity of pit timber, about 1500 yards of railway sidings, a 20 ton truck weighing machine, a 10 ton wagon weighing machine, turntable weighing machine, by Avery; sinkers' bowks, colliers and smiths' tools, office furniture, two capital safes.

TWENTY-ONE PIT HORSES and PONIES, with harness, &c.; two carts, dobbin cart, contractors' wagons, and a variery of other effects.

The Machinery and Plant are of the best materials and workmanship.

The Colliery is adjacent to the Cannock Station on the London and North-Western Railway. There is also a wharf on the Birmingham Canal.

For catalogues, apply to Mr. Walter N. Fisher, Chartered Accountant, 4, Waterloo-street, Birmingham; Messrs. Wise, Son, and Cooke, Solicitors, Ashbourne; Messrs. HAND and Co., Solicitors, Stafford; Messrs. BANDERS, SMITH, and PARISH, Solicitors, Colmore-row, Birmingham; the Auctioneers, Paradisestreet, West Bromwich; and at the place of sale.

In the High Court of Justice-Chancery Division.

COWPEN AND NORTH SEATON COAL COMPANY.

63-7987H SHARES.
IN RE WILLIAM CUTHBERT, Deceased—CUTHBERT v. CUTHBERT. MR. SIMEON JOEL (the person appointed by the Judge)
WILL SELL, BY AUCTION, pursuant to an Order of the said Court,
made in the said action, at the North of England Sale Rooms, 87 and 89, Pllyrimstreet, Newcastle-upon-Tyne, on Tuesday, the 8th day of August next, at Three
o'clock in the afternoon precisely, 63-7987H SHARES in the CURRENT GOING
OULLIERIES of the partnership known as the
COWPEN AND NORTH SEATON COAL COMPANY,

COWPEN AND NORTH SEATON COAL COMPANY,
With the PLANT, MACHINERY, &c., and in Freehold Lands, containing about
98 acres, and in the goodwill, capital stock, and all other the assets and effects
of the said partnership, including a considerable interest in the Blyth Dock and
Harbour Company.

The Collieries are situated in the Northumberland steam coal district, and consist of valuable royalties, embracing an area of 12,000 acres, and held under leases
on lavourable terms. They are connected with the North-Eastern Hailway,
which gives them access to the Northumberland Docks and other shipping places
on the Tyne. The company's own railway, two miles in length, and their shipping places at Blyth, give them access to Blyth Harbour.
The coal is a first-class steam coal, and is estimated to last at the present rate
of working (which for the last few years has been nearly 700,000 tons per
annum),for 80 or 90 years, it being estimated that there are upwards of 50,000,000
tons of coal remaining unwrought in the royalties. The plats are of moderate
depth, and there are four drawing shafts, and the collieries are fitted up with the
most modern appliances.

The plant and machinery for drawing the coal and working the pits are of
the most complete description, and the investment is one well worthy the attention of capitalists.

Further particulars and particulars and conditions of sale of the Auctioneer;

tion of capitalists.

Further particulars and particulars and conditions of sale of the Auctioneer; Messrs. Cooksov, Wainewright, and Penningrox, 6, Newsquare, Lancoln's Inn, London, W.C.; Messrs. Field, Roscor, and Co, 35, Lincoln's Inn Fields, London, W.C.; and Messrs. Claryrox and Gibsox, Solicitors, Newcastle-upon-Tyne, at whose offices in Newcastle-upon-Tyne, at whose offices in Newcastle-upon-Tyne copies of the leases under which the above royalties are held, and of the partnership deed, may be seen.

In the High Court of Justice-Chancery Division
MR. JUSTICE CHITTY.

BENNOCH v. BARTLETT.

OTICE IS HEREBY GIVEN that, pursuant to an Order made in the above-mentioned action, dated the 5th day of October, 1881, the LEASES, MACHINERY, PLANT, TOOLS, AND EFFECTS

LLAY HALL COLLIERY, IRONWORKS, & CLAYWORKS, Together with 9 acres (or thereabouts) of Freehold Land, in the parish of Hope, in the county of Flint, and also the equity of redemption of 3½ acres (or thereabouts) of Freehold Land, known as portion of the Sydallt Estate, at Cefnybedd, in the parish of Hope, in the county of Flint, with the 30 Cottages created thereon (the last mentioned freehold), together with the Cottages to be sold subject to a mortgage for £2421 2s. \$d., repayment of which can be made over a term of years, is hereby OFFERED FOR SALE, BY PUBLIC TENDER, in One Lot.

One Lot.

Particulars and conditions of sale and Forms of Tender can be obtained on application to Messrs. E. F. BARTLETT and H. R. DUKK, the Liquidators and Keceivers of the Liay Hall Coal, Iron, and Fire-brick Company (Limited), No. 7, Queen Victoria-street, London, E.C.; to Messrs. DAVIDSON and MORRISS, Solicitors, Nos. 40 and 42, Queen Victoria-street, London, E.C.; to Messrs. HACON and TURNER, Solicitors, No. 18, Fenchurch-street, London, E.C.

The Works, Machinery, Plant, Freehold Cottages, &c., can be inspected any day between Ten and Four o'clock, on production of an Order, application for which should be made to the Liquidators.

Tenders to be addressed, "The Llay Hall Coal, Iron, and Fire-brick Company (Limited)."

Limited."
Tenders must be sent to the Liquidators, at their offices aforesald, on or before riday, the 4th day of August, 1822.
The Liquidators shall not be bound to accept the highest or any Tender.
DAVIDSON AND MORRISS,
40 and 42, Queen Victoria-street, London, E.C.,
Solicitors for the Plaintiffs.

Dated the 19th day of July, 1882.

FOR SALE, a 30 H.P. PORTABLE STEAM ENGINE; with link-motion reversing gear, has drum and gearing complete for winding and pumping.

A16 n.P. PORTABLE WINDING and PUMPING ENGINE.

A100.8 R.P. PORTABLE HOISTING ENGINE.

BARROWS AND STEWART, ENGINEERS, BANBURY.

THE COTON PARK ESTATE, NEAR BURTON-UPON-TRENT.

MESSRS. WINTERTON, BEALE, and HOULSTON WILL SELL, BY AUCTION, at the Three Queen's Hotel, Burton-upon-frent (unless previously disposed of by Private Contract), on Thursday, the 3rd of August next, at Five for Six o'clock in the afternoon, subject to conditions the to be read, the following valuable

FREEHOLD ESTATE, called "COTON PARK FARM," FREEHOLD ESTATE, called "COTON PARK FARM,"

Situated in the parish of Rosliston and in Linton, in the parish of Church Greeley, in the county of Derby, comprising by recent admeasurement 352 a. 0 g.
13 P., or thereabouts, of ARABLE, MEADOW, and PASTURE LAND (all in a ring fence), together with a commodious RESIDENCE, with suitable Ogi.
offices, double Coach-house, five-stalled Stable, and productive walled Garden.
The Farm Buildings, erected a few years since in a most substantial manner, are replete with every convenience for occupation, including an eight horse power high-pressure Steam-Engine, with Engine-House and Boiler, Shatting, and Gearing complete.

omices, double Coach-house, ave-statied Stable, and productive walled Garden. The Farm Buildings, erected a few years since in a most substantial manner, are replete with every convenience for occupation, including an eight horse-power high-pressure Steam-Engine, with Engine-House and Boiler, Shafting, and Gearing complete.

There is an abundant supply of Water, both hard and soft, for the Yards, Sheds, Engine, and Premises.

The Farm is divided into large and convenient Enclosures. The greater part has been deep drained, and the whole is now in an excellent state of cultivation. The Coton Park Farm (proper) is liable to a modus of 2s. 6d. per annum, lieu of titles, and to a chief rent of 4s. per annum. About Nineteen Acres of the Land in Linton are tithe free.

The Farm is in the occupation of Mr. William Harrison, at the yearly rentsl of £590 10s., and possession can be had at Michaelmas next.

The Mines of Ocal, Ironstone, Clay, and other minerals within, under, and throughout the Estate, are held on Lease by the Coton Park and Linton Colliery Company (Limited) for a term of 50 years from 29th September, 1871, at the minimum rent of £500 a year, and the payment of certain royalties and way leave. The purchaser will be entitled to the benefit of the said Lease.

In 1870, Mr. F. C. Gillett, an experienced Engineer, made a careful examination of the Estate and a full report thereon (which can be seen at the Office of the Vendor's Solicitors). The following is an extract from his report:—

The following table gave the number of workable šeams of coal, their ascetained thickness, and probable yield per acre, as proved at the trial borehole and the shaft:—

No. Yeth Park Coal 40 40 4,000 2.—Main Coal 55 15.5,000 6.—Anglesey Coal 58 2,500 6.—Anglesey Coal 59 3,500 6.—Anglesey Coal 39 3,500 6.—Anglesey Coal 50 50 50 50 50 50 50 50 50 50

convergence to the surface, with an abundant supply of sand, suitable for building purposes.

The advantageous situation of this Estate (only about 6 miles distant from the important town of Burton-upon-Trent), and the facilities afforded for direct communication with all parts of the Midland Countles by means of the railway, render it a most valuable investment.

Coton Park is situated within 2 miles of the Gresley Station on the Burton milester Branch of the Midland Railway Company, to which there is a branch line passing through the Estate, and called the Coton Park Branch Railway, thereby giving direct access to the great coal-consuming markets of London, Birmingham, the Midland Districts, and elsewhere.

Further information and particulars and plan may be had on application to the Auctionees, Walton, near Burton-upon-Trent, and Lichfield; to Messrs. Vallance and Vallance, Soliettors, 20, Essex-street, Strand, London; or to Messr. Jennings, Sox, and Burkon, Soliettors, Burton-upon-Trent; and 17, Greechurch-street, London, E.C.

MOLD, FLINTSHIRE.

IN LIQUIDATION.
TO COLLIERY PROPRIETORS AND OTHERS.

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TO COLLIERY PROPRIETORS AND OTHERS.

IMPORTANT SALE of the VALUABLE COLLIERY known as the BAILEY HILL COLLIERY,

With the PLANT and MACHINERY belonging thereto as a going concern.

ESSRS. CHURTON, ELPHICK, AND CO. have been structed TO SELL, By AUCTION, at the Black Lion Hotel, Mold, on Wednesday, the 2nd of August, 1882, at One for Two o'clock P.M. punctually, in One Lot, and subject to such conditions as will be then produced, the undermentioned valuable Property known as the

BAILEY HILL COLLIERY,

With the whole of the PLANT MACHINERY and EFFECTS belonging.

With the whole of the PLANT, MACHINERY, and EFFECTS belonging thereto, in full working order, as a going concern, together with the two Rail-way Sidings, connecting the same with the Mold and Denbigh Junction Rail-say.

way.

The Property comprises 14 a. 2 g. 10 p. of valuable Freehold Land, upon which
the surface plant is set up; also the Leasehold Interest in the Mines of Coal,
Cannel, Shale, and Ironatone in Lands in the townships of Mold, Broncoel, and
Gwernafield, in the parish of Mold, extending to 342 a. 3 g. 4 p., including the
Minerals under the Freehold, in lease to the Bailey Hill Colliery Company
(Limited) for the residue of a term of 21 years from the 30th June, 1874, granted
by the lords of Mold, at a dead rent of £400 per annum, recompable from
Evantiles.

by the lords of Mold, at a ueau rene of the lord and railway sales, the Colliery is most advantageously situate, both for land and railway sales, being close to the town of Mold, and a considerable sum has been expended in proving and opening out the mines.

Mr. Wm. Lee, the manager, will show the Colliery, and he will also produce the manager of the manager.

MI. Wm. Lee, the manager, will show the Colliery, and he will also product the working plans.

Particulars, with a schedule of the plant and machinery, and any further information, may be had on application to Messrs. Kelley and KENES, Solletors, Mold (at whose office a copy of the lease may be seen); Mr. JOSEPS STARKEY, the liquidator. 3, Jackson Chambers, 21, South Castle-Street, Liverpool; or the AUCTIONEER, Chester.

BY ORDER OF THE MORTGAGEES. MERTHYR TYDFIL, GLAMORGANSHIRE: MOST VALUABLE FREEHOLD AND LEASEHOLD PROPERTIES, KNOWN AS THE

PLYMOUTH COLLIERIES AND IRONWORKS,

PLYMOUTH COLLIERIES AND IRONWORKS,

Bituate in the parish of Merthyr Tydfil, about 24 miles from Cardiff and 36 miles from Swansea, comprising an area approaching 2400 acres, with large extent of superior Smokeless Steam Coal, well known as the Hills, Pjemouth, and Merthyr Coal. The Collieries are intersected by the Taff Vale Railway, having excellent aidings and approaches thereto. Thus the work are brought into direct communication with the principal shipping ports of Cardiff, Newport, Swansea, and Birkenhead, and all the railway systems is the kingdom. The Buildings and works generally are very extensive, and the internal and other connecting tramways, which are many miles in extent, swent and the connecting tramways, which are many miles in extent, swentern Railway. The principal seams of coal, well known as the Yard, Fourfeet, Six-feet, Mine-feet, Lower-yard, Seven-feet and Lower Four-feet, are of the best quality, and on the lists of the English, French, Italian, and Spanish Governments, and besides the several qualities are in great demand among the Atlantic and Continental Steamship Companies. This portion of the estab presents, therefore, the most advantageous opportunities for profitable working, and is capable of yleiding a large additional output and for many years a comparatively artifuing increased cost the whole of the unworked coal, & estimated at 46,000,000 tons. The Plymouth Blast Furnaces, five in number, the Pentreback Mills, Puddling-Furnaces, and Daffyrn Blast Furnaces, five in number, and the undeveloped beds of iron ore are considerable, while the ports of Swansea, Cardiff, and Newport, afford great facilities for obtaining the Spanish ore. There is excellent fire-clay, and every necessary appliance for developing and working a large trade in this important branch, with extensive Limestone Quarries. In addition to a superior residence for the manager, there are if other dwelling-houses for agents, eight farm-houses, and 230 cottages, coveriently placed on the property. At Cardiff, in Dum

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MESSRS. FAREBROTHER, ELLIS, CLARK, AND CO. are instructed by the Mortgages to OFFER FOR SALE, BY AUCTIOS, at the Mart, Tokenhouse-yard, in the City of London, on Wednesday, 18th August, at Two o'clock (unless previously disposed of by Private Treaty), in Guerra, including all TRAM ROADS, MACHINERY, PLANT, FURNACS, MILL FORCES, FIXTURES, ENGINES, MATERIALS, VEHICLES, TOULAMS, DEVINED, AMERICA, VEHICLES, TOULAMS, DEVINED, AMERICA, VEHICLES, TOULAMS, OWNER, and all LINE and DEAD STOCK, with possession. May be viewed, and particulars may be had of Messrs. HOLLAMS, Sox, and COWARD, Mincing-lane, E.C.; at the Castle Inn, Merthyr Tydfil; the Royal Hotel, Cardiff; King's Head, Newport; the Mackworth Arms, Swanses; at its Mart, E.C.; and of Messrs. FAREBROTHER, ELLIS, CLARK, and Co., 5 and than Castle Force, Strand, W.C., and 18, Old Broad street, E.C.

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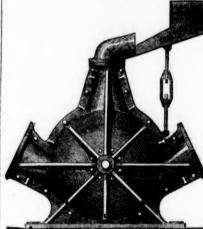
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